

OILFIELD
LUBRICANTS & SEALANTS
CATALOG



SUMMIT INTERNATIONAL

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Introduction

Summit International and associated companies, take pride in decades of experience in manufacturing and supply of oilfield and industrial products to oil & gas companies, rig manufacturers, drilling contractors, casing & service companies, refineries, petrochemical and power generation plants, exploration and production operations, marine industries, engineering & construction companies, and bio-remediation projects for many decades.

We have a proven record servicing domestic and international markets. Our experience and technical knowledge have made us a prime source of supply and service to major companies worldwide. Our full range of products and services are available to all companies that are searching for the right solution.



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OILFIELD **LUBRICANTS & SEALANTS**

CATALOG

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OILFIELD VALVES

Lubricants / Sealants & Packings



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OILFIELD VALVES

Lubricants / Sealants & Packings

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Emergency Valve Sealant (**High Viscosity**)

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Sealant for Downhole Tubing Leaks

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Synthetic Injectable Valve & Pump Packing

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Master Stop Pack

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Master Valve Flush

1611- MVF

(Liquid Valve Clean)

Made in USA

- Nonflammable
- Prevents rust and corrosion
- Resistant to most chemicals
- Eliminates costly shut down and valve repair
- Removes residual gum, lacquer, and rust deposits left by valve lubricants

HP Valve Flush increases the efficiency of your operation by allowing easy valve breakout whereby valves operating freely for months. HP Valve Flush both penetrates and cleans valves that are difficult to operate or stuck. This product is very effective at removing deposits such as rust, lacquer or gum which can be the result of residual valve lubricants. This left over lubricant can shut down valves. HP Valve Flush should not be used on oxygen service and is effective with most valve lubricants and sealants. Over time it will make your job run smoother.

This product can be used on all lubricated valves that are hard to operate. Use conventional lubricating equipment to apply HP Valve Flush. After the product is pumped into the valve, wait about 10 minutes then slowly turn the valve. The process should be repeated until the valve opens freely.

This product is available in Weight of 40 lbs. (18.1 KGS)

TYPICAL OBSERVATIONS

Color	Clear
Physical State	Liquid
Odor	Sweet
Density lb/gal, @ 77°F (25°C)	7.50
Specific Gravity @ 77°F (25°C)	0.90
Flash Point, ASTM D-92	150°F
Evaporation Loss ASTM D-972 @ 210°F (98°C)	116 (Ethyl Ether)
Shelf Life (unopened container):	Two years



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Master Valve Clean 1613-MVC (Solid Valve Clean)

Made in USA

Nonflammable
Eliminates costly shut down and valve repair
Removes residual gum, lacquer, and rust deposits

Prevents rust and corrosion
Resistant to most chemicals
Penetrant and Lubricant

Master Valve 1613-MVC increases the efficiency of your operation by allowing easy valve breakout whereby valves operate freely for months. Master Valve Clean both penetrates, lubricates, and cleans valves that are difficult to operate or stuck. This product is very effective at removing deposits such as rust, lacquer or gum left by valve lubricants. This left over lubricant can shut down valves. 1613-MVC should not be used on oxygen service and is effective with most valve lubricants and sealants. Over time 1613-MVC will make your job run smoother.

This product can be used on all lubricated valves that are hard to operate. Use conventional lubricating equipment to apply 1613-MVC. After the product is pumped into the valve, wait about 10 minutes then slowly turn the valve. The process should be repeated until the valve opens freely.

This product is available in Weight of 5 gal - 40 lbs. and 16 gal - 118 lbs.

TYPICAL OBSERVATIONS

Color	Black
Texture	Smooth
Thickener	Non-soap
Density lb/gal, @ 77°F (25°C)	8.25
Specific Gravity @ 77°F (25°C)	0.989
Dropping Point, ASTM D-2265	>500°F (260°C)
Flash Point, ASTM D-92	150°F (65°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	340
NLGI Grade	1
Base Oil Viscosity SUS @ 100°F (37°C)	1300
cSt @ 40°C (105°F)	255
Evaporation Loss ASTM D-972 @ 210°F (98°C)	6.39%
Shelf Life (unopened container):	Two years



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Lube/Seal Master 1600

(All Purpose Valve Lube & Storage)

Economical
Minimizes friction during operation
Provides excellent leak resistance
Extends lifetime and performance of valves

Waterproof
Contains no bentonite or soap
Protects against rust and corrosion
Non-separating

Lube/Seal Master 1600 is a synthetic biodegradable lubricant and sealant that is both outstanding and economical which minimizes metal on metal contact during the operation of valves. 1600 is resistant to crude oil, hydrogen sulfide, saltwater, and oilfield brine water. This product outperforms others because it is insoluble in water, does not separate or melt, is leak resistant, does not contain soap, and contains the best rust and corrosion inhibitors available. Lube/Seal Master services temperatures to 400°F (204°C).

This product is available in Weight of 5 gal - 40 lbs., 16 gal - 118 lbs., and 55 gal - 420 lbs.

TYPICAL OBSERVATIONS

	NLGI 3	NLGI 4	NLGI 6
Color	Brown	Brown	Brown
Texture	Smooth Paste	Smooth Paste	Sticks
Density, lb/gal @ 77°F (25°C)	8.05	8.25	8.00
Specific Gravity, @ 77°F (25°C)	0.965	0.988	0.959
Dropping Point, ASTM, D-2265	Up to 500°F (260°C)	Up to 500°F (260°C)	Up to 500°F (260°C)
Flash Point, ASTM D-92	445°F (229°C)	445°F (229°C)	445°F (229°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	240	175 - 205	100
NLGI Grade	3	4	6
Blend Base Oil Viscosity, @ 40°C cst	2319	2241	4689
Oil Separation, ASTM D-1742 % wt. loss	<5.0	<5.0	<5.0
Corrosion Preventive Properties, ASTM D1742 @ 125°F (51°C)	Pass	Pass	Pass
Rust Preventative Test, ASTM D-1743	Pass	Pass	Pass
Water Washout Characteristics, ASTM D-1264 @ 100°F (37°C)	Nil	Nil	Nil
Oxidation Stability, ASTM D-942 @ 210°F (98°C), 72 hrs. PSI Loss	10	10	10
Temperature Range	-28°F to >400°F (-33°C to 204°C)	-28°F to >400°F (-33°C to 204°C)	-28°F to >400°F (-33°C to 204°C)
Shelf Life (unopened container)	Two years	Two years	Two years



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Lube / Seal Master 1601

(For Low CO₂ & H₂S Valve Service)

- Non-melting, non-separating.
- Temperature range of -20° F > 450° F (-29° C to >232° C).
- Resists CO₂ (Carbon Dioxide) and H₂S (Hydrogen Sulfide).
- Excellent Leak Resistance and friction reduction.
- Excellent for use in Ball, Gate and Plug Valves, High and Low Pressure Valves,

Lube / Seal Master 1601 is an excellent, heavy duty, Synthetic Valve Lubricant and Sealant that contains a special ingredient that provides the best lubricity preventing metal on metal wear. **Lube / Seal Master 1601** protects metal surfaces against rust and corrosion, allowing valves to operate freely which extends the life of all moving parts. This product can be used on ball, gate, and plug valves to reduce friction during operation of the valve.

Lube / Seal Master 1601 is very resistant to wash out by harsh chemicals such as H₂S and CO₂ (for very high H₂S & CO₂, please see **Lube / Seal CO₂ Master 1607**), acids, caustics, and saltwater solutions. **Lube / Seal Master 1601** forms a seal providing leak free operation for extended service intervals. 1601 services a wide range of temperatures, -20° F > 450° F (-29° C to >232° C).

This product is available in Net Weight of 5 gal - 40 lbs, 16 gal - 118 lbs, and 55 gal - 420 lbs.

TYPICAL OBSERVATIONS

Color	Yellow
Appearance	Smooth
Thickener	Non-soap
Density, lb/gal @ 77°F (25°C)	7.60
Specific Gravity @ 77°F (25°C)	0.911
Dropping Point, ASTM D-2265	>500°F (>260°C)
Flash Point, ASTM D-92	>400°F (204°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	220
Corrosion Preventive Properties, ASTM D-1743 @ 125°F (51°C)	Pass
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	Nil
Oil Separation, ASTM D-1742 @ 210°F (98°C)	3%
Oxidation Stability, ASTM D-942 @ 210°F (98°C), 100 hrs. PSI Loss	10
Water Washout Characteristics ASTM D-1264 @ 100°F (37°C)	Nil
Shelf Life (unopened container)	Two years



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Lube/Seal CO₂ Master 1607

(For High CO₂ & H₂S Valve Service)

Made In USA

- Non-melting, non-separating
- Temperature range of -30 to >550°F (-34 to >288°C)
- Resists CO₂ (Carbon Dioxide) and H₂S (Hydrogen Sulfide)
- Insoluble in water, oilfield brine, and hydrochloric acid
- Contains no bentonite or soaps
- Excellent leak resistance

Lube/Seal CO₂ Master 1607 is an excellent, heavy-duty synthetic valve lubricant and sealant that contains a special ingredient that provides the best lubricity preventing metal on metal wear. This sealant is so durable that it will continue to seal valves exposed to downhole gases and is insoluble in water, oilfield brine, and hydrochloric acid. 1607 will not absorb moisture and is nonseparating. When **Lube/Seal CO₂ Master 1607** is exposed to hydrogen sulfide, carbon dioxide, gasoline, diesel, or crude oil it will continue to be leak resistant. There are no bentonite or soap thickeners in this product. 1607 services a wide range of temperatures from -30 to >550°F (-34 to >288°C).

Valve Rebuilders, Valve Manufacturers, Chemical Processing Companies, Pipe Line Companies, Refineries, and Utilities are the type of industries that can use this product. 1607 can also be applied to plug valves, gate valves, ball valves, gathering systems valves, crude oil pipe line valves, high and low pressure valves, motor and hand operated valves.

This product is available in Net Weight of 5 gl - 40 lbs and 16 gl - 115 lbs.

TYPICAL OBSERVATIONS

Color	Gold
Texture	Smooth Paste
Density, lb/gal @ 77°F (25°C)	7.90
Specific Gravity, @ 77°F (25°C)	0.946
Dropping Point, ASTM D-2265	570°F (298°C)
Flash Point, ASTM D-92 based on oil	None
Viscosity of Base Oil, cSt @ 40°C (104°F)	2400
Penetration, ASTM D-217 worked @ 77 F (25°C)	280
Corrosion Preventative Properties, ASTM D-1743 @ 125°F (51°C)	Pass
Water Washout Characteristics, ASTM D-1264 @ 100°F (37°C)	Nil
Oil Separation, ASTM D-1742 @ 77°F (25°C)	<5.0%
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	0.3%
Shelf Life (unopened container)	Two Years



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Seal Master 1603

(High Viscosity Emergency Valve Sealant)

Made In USA

Biodegradable
Excellent sealing properties
Keeps valves free from freezing
Water resistant
Combats corrosion
Eliminates waste

Resists acids, caustics, and harsh chemicals
Keeps liquid or gas from escaping
Non-toxic
Retains consistency
Prevents scoring and galling

Seal Master 1603 is a synthetic biodegradable high viscosity plug valve lubricant that will prevent valves from freezing. Because 1603 contains a special ingredient for lubricity it is especially effective in heavy duty applications. The versatility of Seal Master is unsurpassed since it can be used in a variety of applications in nearly all industrial applications. This product is unaffected by acids, harsh chemicals, and caustics will not dissolve in the presence of aliphatic hydrocarbon. 1603 prevents scoring and galling on precision valves, liquid gas from escaping and is insoluble in water. Seal Master also combats corrosion and eliminates waste. The special formulation makes 1603 the ultimate solution for sealing valves carrying natural gas, crude oil (sweet or sour), water and condensates. 1603 resists H₂S and CO₂.

1603 is primarily used to keep valves free of freezing in all types of industrial areas. Aliphatic hydrocarbons and aqueous solutions is where 1603 is recommended. This product should not be used for steam service or with hydrogen peroxide or sulfuric acid.

This product is available in Weight of 5 gal - 40 lbs. and 55 gal - 400 lbs.

TYPICAL OBSERVATIONS

Color		Pale Green
Texture		Slightly Rough
Active Component		Proprietary Component
Manufacturing Process		Fluoromation
Density, lbs/gal @ 77°F (25°C)		9.20
Specific Gravity, @ 77°F (25°C)		1.102
Dropping Point, ASTM D-2265		>500°F (>260°C)
Flash Point		445°F (229°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	Bulk	145
	Stick	100
NLGI Grade		5
Corrosion Preventive Properties, ASTM D-1743 @ 125°F (52°C)		Pass
Water Washout Characteristics, ASTM D-1264 @ 77°F (25°C)		Nil
Oxidation Stability, ASTM D-942 # 210°F (98°C), 100 hrs, PSI Loss		8
Temperature Range		-40°F to >450°F (-40°C to >232°C)
Shelf Life (unopened container)		2 years



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Master HI-Seal 725

(Downhole Tubing Sealant for Smaller Leaks)

Made In USA

Excellent sealing of leaks
Eliminates downtime and shutdown of equipment
Seals by differential pressure
Flexible, permanent seal
Seals under high or low pressure

Controls leaks in operating systems
Easily mixes with fresh or salt water
Does not become brittle
Does not restrict the production flow
Remains effective up to 500 °F (260 °C)

Downtime and shutdown of equipment are eliminated with **Master HI-Seal 725**. This product is used in the oilfield, petrochemical and general industries to reduce or completely seal leaks up to .10 inches in tubing, casing, line pipe and pressure control equipment. While sealing with differential pressure, **725** seals under high or low pressure and does not restrict the production flow. The seal is both flexible and permanent. **Master HI-Seal** remains effective up to 500°F (260°F).

This product is available in Weight of 5 gal - 50 lbs.

TYPICAL OBSERVATIONS

Color	Red
Odor	Mild
Active Component	PTFE
Manufacturing Process	Fluoromation
Density, lb/gal @ 77°F (25°C)	11.0
Specific Gravity @ 77°F (25°C)	1.32
Flash Point, ASTM D-92	245°F (118°C)
Shelf Life (unopened container)	One year



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Master HI-Seal 825

(Downhole Tubing Sealant for Large Leaks)

Made In USA

Excellent sealing of leaks
Eliminates downtime and shutdown of equipment
Seals by differential pressure
Flexible, permanent seal
Seals under high or low pressure

Controls leaks in operating systems
Easily mixes with fresh or salt water
Does not become brittle
Does not restrict the production flow
Remains effective up to 500 °F (260 °C)

Downtime and shutdown of equipment is eliminated with **Master HI-Seal 825**. This product is used in the oilfield, petrochemical, and general industries to reduce or completely seal leaks up to .20 inches in tubing, casing, line pipe and pressure control equipment. While sealing with differential pressure, **825** seals under high or low pressure and does not restrict the production flow. The seal is both flexible and permanent. **Master HI-Seal 825** remains effective up to 500°F (260°C).

This product is available in Weight of 5 gal - 50 lbs.

TYPICAL OBSERVATIONS

Color	Red
Odor	Mild
Active Component	PTFE
Manufacturing Process	Fluoromation
Density, lbs/gal @ 77°F (25°C)	12.0
Specific Gravity, @ 77°F (25°C)	1.44
Flash Point	245°F (118°C)
Shelf Life (unopened container)	One year



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Master Pack

066

(Synthetic Injectable Valve & Pump Packing)

Made In USA

066 Master Pack Synthetic provides superior lubrication and sealing performance to centrifugal or reciprocating pumps. The packing can be injected into stuffing boxes equipped with a lantern ring to affect a seal while the pump is running. The primary ingredient in **066 Master Pack Synthetic** can repair pitted or scored shafts and provides unsurpassed lubrication and sealing. The moldable characteristics of this unique product enable use on any size shaft. It services a wide temperature range, and its inert characteristics provide use on a broad range of chemicals.

This product is available in Cart Case (6 cartridges), Standard Case (6 jars), 1 gal (4L), 3 1/2 gal (13L).

TYPICAL OBSERVATIONS

Color	Green
Texture	Grainy, rough paste
Density, lb/gal @ 77°F (25°C)	11.0
Specific Gravity @ 77°F (25°C)	1.32
Flash Point, ASTM D-92	440°F (226°C)
Dropping Point, ASTM D-2265	>500°F (>260°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	175
Evaporation Loss, ASTM D-972 @ 210°F (98.8°C)	0.13%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	Nil
Oxidation stability, ASTM D-942 @ 210°F (98.8°C), 72 hrs. PSI Loss	3
Shelf Life (unopened container)	Two years



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MSP-4102

Master Stop Pack

MSP-4102 Master Stop Pack offers high performance, ease of operation, and reliability in applications used primarily with the injection of **Master Synthetic Pack 066**. Normal fittings are designed to handle conventional materials and may fail to offer the performance when **Master Synthetic Pack 066** is injected.

MSP-4102 Master Stop Pack's working pressure is 10,000 psi and the threaded connection is 1/4" (0.635). The addition of a pressure relief hole is not found in conventional type button head fittings as illustrated below.



MSP-4102 Master Stop Pack

A pressure relief hole is opened when **MSP-4102** is turned to the closed position thereby relieving gun pressure and prevents damage to the coupler seal.

Operating Instructions

1. Screw **MSP-4102** fitting tightly in place.
2. Attach gun and open **MSP-4102** to inject.
3. Close the valve prior to removing the cartridge gun to relieve pressure and prevent the material from flowing back.



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Notes

Weights indicated in the catalog are product weight.

To calculate shipping weights please add:

3 LBS to the 5 Gallon Pails (Metal or Plastic)

13 LBS to 16 Gallon Drum

40 LBS to 55 Gallon Drum



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OILFIELD DRILLING

Drill Collar & Tool Joint Compounds



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We have a proven record servicing domestic and international markets. Our experience and technical knowledge have made us a prime source of supply and service to major companies worldwide. Our full range of products and services are available to all companies that are searching for the right solution.



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OILFIELD DRILLING

Drill Collar & Tool Joint Compounds

Thread Locking Compound

- Master Lock 053 Page 24
- Master Lock 253 (Zinc Free) Page 25

Tool Joint Compound

- Master Copper Compound MCC24 Page 26
- Master TJC Lube 50% Page 27
- Master TJC Lube 60% Page 28

- Enviro Master TJC 533 (Metal Free) Page 29
- Bio Master Grande TJC 633 (Biodegradable) Page 30
- Enviro Dual Master TJC/TC 580 (Metal Free) Page 31

Sealants for Downhole Tubing Leaks

- Master HI-Seal 725 (Small Leaks) Page 32
- Master HI-Seal 825 (Large Leaks) Page 33

Silicone Oil

- Master Fluid 480 Page 34

Master Lock 053 (Thread Locking Compound)

Made in USA

Friction Factor of 1.51
Workable consistency in excess of one hour
Contains rust and corrosion inhibitors
Withstands high breakout torque
Provides a leakproof seal
Unaffected by vibration and pounding

Mixes easily
Water resistant
Oxidation resistant
Provides a leakproof seal
Self lubricating
Excellent adhesion

Master Lock 053 is unaffected by vibration, pounding or expansion due to temperature changes, making it easily mixed under varying temperatures due to its workable consistency that lasts longer than an hour. 053 is a two part epoxy compound used to replace the welding of casing joints and threaded connections. Master Lock 053 withstands high break-out torque and provides a leak proof seal.

This product is available in Weight of 1/2 lb case (12 kits), 1 lb case (6 kits)

TYPICAL OBSERVATIONS

Chemical Family	Epoxy Polymer Resin
Color	Gray
Specific Gravity @25°C	1.797
ASTM Penetration @77°F (25°C)	355-365
NLGI Grade	0
Type Curing	Thermo Curing
Density, lb/gal	15.00
Friction Factor	1.51
Shelf Life	Two Years

TYPICAL OBSERVATION Hardener

Appearance	Liquid
Color	Pale Straw Colored
Odor	Ammonical
Density, lb/gal @77°F (25°C)	8.51
Specific Gravity	1.019
Solubility in Water	Appreciable (>10%)
Percent Volatile	Nil
Flash Point	>250°F (121°C)

COVERAGE CHART (FOR 1 POUND KIT)

PIPE SIZE	NO. OF JOINTS
4 1/2"-5 1/2".....	16 Joints
6 5/8"-7".....	12 Joints
7 5/8"-9 7/8".....	8 Joints
10 3/4"-3 3/8".....	4 Joints
16"-20".....	2 Joints



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Master Lock 253 (Zinc Free Thread Locking Compound)

Made In USA

Zinc-Free, environmentally friendly
 Workable consistency in excess of one hour
 Contains rust and corrosion inhibitors
 Withstands high break-out torque
 Self lubricating
 Excellent adhesion

Mixes Easily
 Water resistant
 Oxidation resistant
 Provides a leakproof seal
 Unaffected by vibration, pounding or temperature

Master Lock 253 is a two-part epoxy thread locking compound that is both zinc-free and environmentally friendly. This product is easily mixed under a wide range of temperatures due to its workable consistency which is in excess of one hour. Master Lock has excellent adhesion, is self lubricating and water resistant. This thread locking compound is unaffected by vibration, pounding or expansion due to variant temperatures and withstands high break-out torque. Master Lock 253 provides a leak proof seal, contains rust and corrosion inhibitors and is oxidation resistant. Master Lock 253 replaces welding of casing joints and threaded connections.

This product is available in Weight of 1/2 lb case (12 kits), 1 lb case (6 kits)

TYPICAL OBSERVATIONS Master Lock 253

Chemical Family	Epoxy Polymer Resin
Color	Gray
Appearance	Paste
ASTM Penetration @ 77°F (25°C)	360
Type Curing	Thermo Curing
Shelf Life	2 Years
Density lbs/gal	11.51
Specific Gravity @ 25°C	1.38
Flash Point	>400°F (>205°C)
Solubility in Water	Insoluble

TYPICAL OBSERVATIONS Master Lock Hardener

Appearance	Liquid
Color	Pale Straw Colored
Odor	Mild
Density, lb/gal @ 77°F (25°C)	8.51
Specific Gravity	1.02
Solubility in Water	Appreciable (>10%)
Percent Volatile	Nil
Flash Point	>200°F (>93°C)

Coverage Chart-(For 1 Pound Kit)

PIPE SIZE:	NO. OF JOINTS:
4 1/2".....	18-20 Joints
5 1/2".....	12-16 Joints
6 5/8"-7".....	8-12 Joints
7 5/8", 8 5/8" or 9 7/8".....	4-6 Joints
10 3/4", 11 5/8", or 13 3/8".....	4 Joints

Coverage Chart-(For 1/2 Pound Kit)

PIPE SIZE:	NO. OF JOINTS:
4 1/2".....	9-10 Joints
5 1/2".....	6-8 Joints
6 5/8"-7".....	4-6 Joints
7 5/8", 8 5/8" or 9 5/8".....	2-3 Joints
10 3/4", 11 5/8", or 13 5/8".....	2 Joints



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Master Copper Compound

MCC24

(Tool Joint Compound & Drill Collar)

Made In USA

Environmentally friendly
Excellent lubricity
Prevents downhole makeup

Extreme pressure additives
Lead free
Prevents galling

MCC24 Master Copper Compound is an environmentally friendly drill pipe and drill collar compound. This lubricant provides easy breakout which prevents galling and the necessity of excessive torque with downhole makeup. The additives in this product provide greater lubricity and superior pressure performance. MCC24 services a wide range of temperatures (0 - 400°F, -17 - 204°C), has a service rating of 10,000 PSI and is nonflammable.

Drill pipe, drill collars, casing, tubing, line pipe, tool joints, rotary shouldered connections, and fishing tools is the ideal application for MCC24. This product should not be used for stainless steel fittings where the temperature exceed 500°F (260°C).

This product is available in Weight of 5 gal - 45 lbs.

TYPICAL OBSERVATIONS

Color	Copper/Brown
Texture	Paste
Density, lb/gal@ 77°F (25°C)	9.40
Specific Gravity @ 77°F (25°C)	1.13
Dropping Point, ASTM D-2265	390°F (199°C)
Flash Point, ASTM D-92	>400°F (>204°C)
Friction Factor	1.2
Penetration, ASTM D-217 @ 77°F (25°C)	330 - 340
Base Oil Viscosity cSt @ 40°C	360
Corrosion Preventive Properties, ASTM D-1743 125°F (51°C)	Pass
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	1.80%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	<1.0%
4-Ball, Weld Point, Kgf (ASTM D-2596)	200 Pass 250 Weld
Temperature Range	0°F to 400°F (-17°C to 204°C)
Shelf Life (unopened container)	2 years



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Master TJC Lube 50%

(Tool Joint & Drill Collar Compound)

TJC Lube 50% is manufactured from metallic zinc as specified an API 5A3/ISO 13678:2009 blended in a high quality petroleum base composition. TJC Lube 50% prevents thread damage and will not squeeze out under high loads or pressure. It is approved for use by tool joint manufacturers, and conforms to recommendations of IADC and API. The premium base petroleum base composition contains anti-galling agents to produce a compound which is highly adhesive, water proof and brushable in high temperature applications. It also contains a premium inhibitor package to prevent rust and corrosion during storage. TJC Lube 50% is recommended for use on all drill stem elements, including tool joints and drill collars. TJC Lube 50% has been tested by API methods and has a Friction Factor of 1.0.

This product is available in 50 lbs case (110.23 kg)

TYPICAL OBSERVATIONS

Color	Gray
Texture	Smooth
Soap Type	Lithium Base
Density, lb/gal @ 77°F (25°C)	13.95
Specific Gravity @ 77°F (25°C)	1.67
Dropping Point, ASTM D-2265	500°F (260°C)
Flash Point, ASTM D-92	350°F (177°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	320
Base Oil Viscosity cst @ 40°C	360
Evaporation Loss, ASTM D-972 @ 212°F (100°C)	0.3542%
Shell 4-Ball, ASTM D-2596 Weld Point, kgf	500
Oil Separation, ASTM D-1742 @ 77°F (25°C)	0.3012%
Copper Strip Corrosion, ASTM D-4048	1A
Temperature Range	10°F to 400°F (-12°C to 204°C)
Friction Factor as per API	1.0
Shelf Life (unopened container)	Two years



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Master TJC Lube 60% (Tool Joint & Drill Collar Compound)

TJC Lube 60% is manufactured from metallic zinc as specified in API 5A3/ISO 13678:2009 blended in a high quality petroleum base composition. **TJC Lube 60%** prevents thread damage and will not squeeze out under high loads or pressure. It is approved for use by tool joint manufacturers, and conforms to recommendations of IADC and API. The premium base petroleum base composition contains anti-galling agents to produce a compound which is highly adhesive, water proof and brushable over a wide range of temperatures. It also contains a premium inhibitor package to prevent rust and corrosion during storage. **TJC Lube 60%** is recommended for use on all drill stem elements, including tool joints and drill collars. **TJC Lube 60%** has been tested by API methods and has a Friction Factor of 1.0.

This product is available in Weight of 5 gal - 50 lbs and 55 gal - 500lbs.

TYPICAL OBSERVATIONS

Color	Gray
Texture	Smooth
Soap Type	Lithium Base
Density, lb/gal @ 77°F (25°C)	15.89
Specific Gravity @ 77°F (25°C)	1.90
Dropping Point, ASTM D-2265	395°F (201°C)
Flash Point, ASTM D-92	350°F (177°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	290
Base Oil Viscosity cst @ 40°C	370
cst @ 100°C	210
Evaporation Loss, ASTM D-972 @ 212°F (100°C)	0.3794%
Shell 4-Ball, ASTM D-2596 Weld Point, kgf	500
Oil Separation, ASTM D-1742 @ 77°F (25°C)	0.6127%
Copper Strip Corrosion, ASTM D-4048	1A
Temperature Range	0°F to 290°F (-17° to 143°C)
Shelf Life (unopened container)	Two years



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Enviro Master TJC 533

(Metal Free Tool Joint & Drill Collar Compound)

Environmentally Safe
Non-contaminating
Washout resistant
Friction factor of 1 as per API

Metal-Free
Protects against galling and seizing
Inhibits corrosion

Enviro Master TJC 533 is a superior tool joint and drill collar compound that is metal free and environmentally safe. The presence of corrosion inhibitors provides maximum protection to the drill string. This product provides the required thread and shoulder protection under various operating conditions and prevents galling, sizing, thread damage, and excessive wear resulting in prolonged tool joint and drill collar life. This tool joint and drill collar compound resists washout and will not harden or dry in the connection. Without metal, Enviro Master TJC 533 is non-contaminating and enables ease of make-up and breakout of all joints.

This product is available in Weight of 5 gal - 45 lbs. and 16 gal - 118 lbs.

TYPICAL OBSERVATIONS

Color	Black
Texture	Smooth
Density, lb/gal @ 77°F (25°C)	8.73
Specific Gravity @ 77°F (25°C)	1.05
Dropping Point, ASTM D-2265	>500°F (260°C)
Flash Point, ASTM D-92	>400°F (204°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	305 - 315
Base Oil Viscosity, St @ 77°F (25°C)	360
Corrosion Preventive Properties, ASTM D-1743 @ 125°F (51°C)	Pass
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	1.17%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	0.07%
Oxidation Stability, ASTM D-972 @ 210°F (98°C) 72 hrs. PSI Loss	5
Water Washout Characteristics, ASTM D-1264 @ 100°F (37°C)	Nil
Friction Factor (as per API)	1
Brushability Passes At Temperature Range	-18°C (-4°F) 20°F - >450°F (-6°C 0 >232°C)
Shelf Life (unopened container)	Two years



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Master Grande TJC 633

(Biodegradable Tool Joint & Drill Collar Compound)

Made In USA

**Metal-Free
Non-Toxic**

**Environmentally Safe
Inhibits Corrosion**

**Water-Repellant
Resists Washouts**

Master Grande TJC 633 is a biodegradable synthetic based compound designed for rotary shoulder applications combating extreme conditions i.e. Damaged and Excessive Wear Threads, High Pressures, High Temperatures, and Vibrations.

Master Grande TJC 633 is recommended for drilling hard formations, deep drilling, breaking in new tool joints, directional drilling, crooked holes, and other high torque conditions. It has passed the LC-50 toxicity test and meets the objective for elimination hazardous materials in the work place, as presented in OSHA Communications 29 CFR 1910.1200 by being non-metallic. Master Grande TJC 633 is recommended for use on tool joints, drill collars, and other rotary shouldered connections. It is recommended as an alternative to conventional zinc, copper, lead or Teflon® compounds. Because Master Grande TJC 633 is non-metallic, it eliminates the corrosion problems making it the tool joint and drill collar compound for today's strict environmental concerns.

This product is available in Weight of 5 gal - 45 lbs. and 55 gal - 475 lbs.

TYPICAL OBSERVATIONS

Color	Black
Texture	Smooth
Density, lb/gal @ 77°F (25°C)	9.15
Specific Gravity @ 77°F (25°C)	1.10
Dropping Point, ASTM D-2265	573°F (300°C)
Flash Point, ASTM D-92	>400°F (>204°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	320
Blend Oil Viscosity, cSt @ 40°C	9.38
Water Washout Characteristics, ASTM D-1264 @ 100°F (51°C)	Nil
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	1.04%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	0.9%
Corrosion Preventive Properties, ASTM D-1743 @ 125°F (25°C)	Pass
Friction Factor (as Per API)	1
Temperature Range	0°F to 500°F (-17°C to 260°C)
Shelf Life (unopened container)	Two years



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Enviro Dual Master TJC/TC 580

(Metal Free Premium TJC/TC Compound)

Made In USA

Environmentally safe
Non-conductive
Adheres to wet joints
Corrosion inhibitor Package

Metal-Free
Prevents against galling & seizing
EP properties

Enviro Dual Master TJC/TC 580 is a premium dual thread compound with an application temperature ranging from -65°F to 500°F (-54°C to 260°C). This non-conductive, anti-galling compound contains no metals and can be used on tubing/casing as well as tool joints/drill collars. It can be used as a storage compound or running compound. In addition to extreme pressure additives, **Enviro Dual Master TJC/TC 580** contains a proprietary corrosion protection package. It is resistant to water and most drilling mud and will adhere to wet joints under demanding drilling conditions. **Enviro Dual Master TJC/TC 580** can be used on all pipe grades including corrosion resistant alloys.

This product is available in Weight of 2 gal - 18 lbs., 3 1/2 gal - 30 lbs., and 5 gal - 50 lbs. pails.

Enviro Dual Master TJC/TC 580 can be used on Drilling (tool joints/drill collars), Tubing/Casing, and Storage.

TYPICAL OBSERVATIONS

Color	Tan
Appearance	Paste
Thickener	Petroleum
Fluid Type	10.25
Density, lb/gal @ 77°F(25°C)	1.23
Dropping Point, ASTM D-2265	>500°F (260°C)
Flash Point, ASTM D-92	>450°F (232°C)
Penetration, ASTM D-217 worked@77°F (25°C)	290-320
Oil Separation, ASTM D-6184	
Wt. % Loss @ 212°F (100°C)	<3.0
Copper Strip Corrosion, ASTM D-217	1A, typical
Friction Factor, Relative to API 7A1 (for drill pipe, drill collar and tool joint connections)	1.1
Relative to API 5A3 (for tubing and casing connections)	1.2
Temperature Range	-65°F to 500°F
Drilling Application (-54°C to 260°C)	-65°F to 2600°F
Anti-seize Application (-54°C to 1317°C)	
Shelf Life (unopened container)	Two Years



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Master HI-Seal 725

(Downhole Tubing Sealant for Smaller Leaks)

Made In USA

Excellent sealing of leaks
Eliminates downtime and shutdown of equipment
Seals by differential pressure
Flexible, permanent seal
Seals under high or low pressure

Controls leaks in operating systems
Easily mixes with fresh or salt water
Does not become brittle
Does not restrict the production flow
Remains effective up to 500 °F (260 °C)

Downtime and shutdown of equipment are eliminated with **Master HI-Seal 725**. This product is used in the oilfield, petrochemical and general industries to reduce or completely seal leaks up to .10 inches in tubing, casing, line pipe and pressure control equipment. While sealing with differential pressure, **725** seals under high or low pressure and does not restrict the production flow. The seal is both flexible and permanent. **Master HI-Seal** remains effective up to 500°F (260°F).

This product is available in Weight of 5 gal - 50 lbs.

TYPICAL OBSERVATIONS

Color	Red
Odor	Mild
Active Component	PTFE
Manufacturing Process	Fluoromation
Density, lb/gal @ 77°F (25°C)	11.0
Specific Gravity @ 77°F (25°C)	1.32
Flash Point, ASTM D-92	245°F (118°C)
Shelf Life (unopened container)	One year



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Master HI-Seal 825

(Downhole Tubing Sealant for Large Leaks)

Made In USA

Excellent sealing of leaks
Eliminates downtime and shutdown of equipment
Seals by differential pressure
Flexible, permanent seal
Seals under high or low pressure

Controls leaks in operating systems
Easily mixes with fresh or salt water
Does not become brittle
Does not restrict the production flow
Remains effective up to 500 °F (260 °C)

Downtime and shutdown of equipment is eliminated with **Master HI-Seal 825**. This product is used in the oilfield, petrochemical, and general industries to reduce or completely seal leaks up to .20 inches in tubing, casing, line pipe and pressure control equipment. While sealing with differential pressure, **825** seals under high or low pressure and does not restrict the production flow. The seal is both flexible and permanent. **Master HI-Seal 825** remains effective up to 500°F (260°C).

This product is available in Weight of 5 gal - 50 lbs.

TYPICAL OBSERVATIONS

Color	Red
Odor	Mild
Active Component	PTFE
Manufacturing Process	Fluoromation
Density, lbs/gal @ 77°F (25°C)	12.0
Specific Gravity, @ 77°F (25°C)	1.44
Flash Point	245°F (118°C)
Shelf Life (unopened container)	One year



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Master Fluid 480 (Silicone Oil)

Made In USA

Excellent thermal and oxidation stability
Odorless
Available in several viscosities

Non-corrosive
Chemically inert
Non-staining

Master Fluid 480 is a long lasting premium silicone oil for drilling and wireline applications. This fluid is inert, non-corrosive, odorless, chemically inert, non-staining to most common materials, and available in several viscosities. Master Fluid 480 displays a much smaller viscosity-temperature changes than organic hydrocarbon fluids. This product demonstrates excellent thermal and oxidation stability when exposed to high temperatures for long periods of time.

TYPICAL OBSERVATIONS

	480/50	480/100	480/200	480/250	480/350
Color	Colorless	Colorless	Colorless	Colorless	Colorless
Odor	Mild	Mild	Mild	Mild	Mild
Density, lb/gal @ 77°F (25°C)	8.09	8.10	8.12	8.13	8.15
Specific Gravity	0.97	0.97	0.97	0.97	0.98
Flash Point, ASTM D-92	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)
Solubility in Water	Insoluble	Insoluble	Insoluble	Insoluble	Insoluble
Viscosity, cst					
@ 77°F (25°C)	50	100	200	250	350
@ 40°C	37	74	148	210	260
@ 100°C	16	32	63	75	110
Shelf Life (unopened container)	Two years	Two years	Two years	Two years	Two years

TYPICAL OBSERVATIONS

	480/500	480/1000	480/5000	480/10000	480/12500
Color	Colorless	Colorless	Colorless	Colorless	Colorless
Odor	Mild	Mild	Mild	Mild	Mild
Density, lb/gal @ 77°F (25°C)	8.16	8.17	8.20	8.22	8.25
Specific Gravity	0.977	0.98	0.98	0.99	0.99
Flash Point, ASTM D-92	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)
Solubility in Water	Insoluble	Insoluble	Insoluble	Insoluble	Insoluble
Viscosity, cst					
@ 77°F (25°C)	500	1,000	5,000	10,000	12,500
@ 40°C	372	750	3,500	7,000	10,000
@ 100°C	158	350	2,000	3,500	5,000
Shelf Life (unopened container)	Two years	Two years	Two years	Two years	Two years



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Notes

Weights indicated in the catalog are product weight.

To calculate shipping weights please add:

3 LBS to the 5 Gallon Pails (Metal or Plastic)

13 LBS to 16 Gallon Drum

40 LBS to 55 Gallon Drum



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Decades of experience in oilfield & industrial
manufacturing, supply, and services worldwide



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OILFIELD
WIRELINER
Wireline Products



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Introduction

Summit International and associated companies, take pride in decades of experience in manufacturing and supply of oilfield and industrial products to oil & gas companies, rig manufacturers, drilling contractors, casing & service companies, refineries, petrochemical and power generation plants, exploration and production operations, marine industries, engineering & construction companies, and bio-remediation projects for many decades.

We have a proven record servicing domestic and international markets. Our experience and technical knowledge have made us a prime source of supply and service to major companies worldwide. Our full range of products and services are available to all companies that are searching for the right solution.



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OILFIELD WIRELINER

Wireline Products

Wireline Spray

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Wireline Lube & Seal

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CO₂ Wireline Lube & Seal

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Master Wireline Spray

MW S (Wireline Spray)

Made in USA

Increases wireline life
Increases protection against H₂S
Easy to apply using standard spray equipment
Can be used on braided line or slick line

Protects against corrosive effects of
downhole chemicals
Penetrating wireline to core
Economical

Master Wireline Spray will protect the wireline against the corrosive effects of acids, caustics, and most chemicals. Master Wireline Spray is a wireline corrosion inhibitor designed and manufactured to protect wireline from the effects of corrosive chemicals commonly found downhole. It is applied at the spool to each layer of wireline. Master Wireline Spray increases protection against hydrogen sulfide (H₂S) and saltwater. It contains special wetting agents which enable it to penetrate the surface to the inner core of the braided line.

Master Wireline Spray is designed to be used with spray equipment commonly mounted on many wireline trucks or skid mounted units. It also provides a lubricating effect to the wireline, thus reducing wear caused by continuous use.

This product is available in Weight of 5 gal - 38.5 lbs., 16 gal - 124.6 lbs., and 55 gal - 430.5 lbs.)

TYPICAL OBSERVATIONS

Color	Amber
Odor	Mild Hydrocarbon
Density, lb/gal @ 77°F (25°C)	7.10
Specific Gravity, @ 77°F (25°C)	.0851
Flash Point, ASTM D-97	148°F (64°C)
Pour Point, ASTM D-97	>58°F (>50°C)
Viscosity, #4 Ford Cup @77°C (25°C)	13-15 sec
Rust-Preventative Test, ASTM D-3606	Pass
Shelf Life (unopened container)	Two Years



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Bio Master Wireline Spray

B-MW S

(Bio Wireline Spray)

Made in USA

Bio Master Wireline Spray is a non-contaminating, environmentally friendly Wireline spray. Bio Master Wireline Spray may be used on wire rope and cable for protection against corrosion.

Bio Master Wireline Spray is designed to guard wirelines from the effects of corrosive chemicals commonly found in downhole production. Bio Master Wireline Spray will protect the complete braided Wireline and guard against the corrosive effects of acids, caustics, salt water, and most chemicals including hydrogen sulfide. Bio Master Wireline Spray includes special wetting ingredients that enable it to pierce the surface down to the inner core of the wireline.

Bio Master Wireline Spray also supplies a lubricating effect to the wireline, thus reducing most wear caused by constant use. It is designed to work with spray equipment mounted on wireline truck units. This environmentally acceptable wireline corrosion inhibitor can also be used by brushing each layer of wireline as it is made up on the spool.

Bio Master Wireline Spray has an operating sprayable temperature range of 50°F to 100°F (10°C to 37°C).

This product is available in Weight of 5 gal - 41.5 lbs., 16 gal - 135 lbs., 55 gal - 462.95 lbs.

TYPICAL OBSERVATIONS

Appearance	Liquid
Color	Amber
Odor	Mild, fatty
Density lb/gal, @77°F (25°C)	7.69
Specific Gravity, @77°F (25°C)	0.922
Viscosity, #4 Ford Cup @ 77°F (25°C)	22sec
Evaporation loss ASTM D-972 @ 210°F (99°C)	0.43
Pour Point, ASTM D-97	-23.8°F(-31°C)
Flash Point	>500°F (260°C)
Shelf Life (unopened container)	Two Years



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Master Wireline Seal

MWS 24W

(Wireline Lube & Seal)

Made in USA

Master Wireline Seal is designed for more effective wireline lubrication and ease of wireline operation. It is manufactured with corrosion inhibitors. Master Wireline Seal provides better seal retention and is recommended for operations where different pressures exist. Master Wireline Seal will reduce the friction, thus keeping wear on wireline and flow tubes to a minimum. It also holds and maintains higher seal pressures. Master Wireline Seal will keep high working pressures, resulting in the reduction of lost condensate, fluids or gases from wells.

It is most effective under high shock conditions for the reduction of drip and splatter. Master Wireline Seal inhibits against the corrosive effects of acids, caustics, and saltwater. It is manufactured to provide protection against hydrogen sulfide (H₂S). For higher concentration of H₂S additional inhibitors are required and can be provided upon request.

This product is available in Weight of 5 gal - 39.25 lbs., 16 gal - 127 lbs., 55 gal - 438.75 lbs.

TYPICAL OBSERVATIONS

Color	Golden Yellow
Texture	Tacky Liquid
Odor	Mild
AP Gravity @60°F (15°C)	31
Density, lb/gal @77°F (25°C)	7.25
Specific Gravity, @77°F (25°C)	0.869
Flash Point, ASTM D-92	390°F (198°C)
Viscosity, kinematic, cst@40°C	24 Visc or 10,500-12,000
Viscosity Index	328
Rust Preventive Test ASTM D-3603 @ 140°F (60°C)	Pass
Shelf Life	Two Years



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Master Wireline Seal

MWS 28W

(Wireline Lube & Seal)

Made In USA

- Contains corrosion inhibitors
- Effective wireline lubrication
- Provides better seal retention
- Maintains and holds higher seal pressure
- Reduces friction
- Reduces loss of condensate, fluids, or gas from well
- Reduces drip and splatter
- Prevents wellsite contamination
- Protects against hydrogen sulfide (H₂S)

Master Wireline Seal provides better seal retention and is recommended for operations where different pressures exist. In addition to maintaining and holding higher seal pressures, Master Wireline Seal will reduce the friction of the wireline, thus minimizing wear on wireline and flow tubes. Master Wireline Seal will retain higher working pressures which will reduce the loss of condensate, fluids, or gas from the well.

Master Wireline Seal is most effective under high shock conditions for the reduction of drip and splatter. The special cohesive and adhesive properties prevent wellsite contamination. Master Wireline Seal provides protection against hydrogen sulfide (H₂S) as well as corrosive effects of acids, caustics, and salt water.

This product is available in Weight of 5 gal - 19 L and 55 gal - 208 L

TYPICAL OBSERVATIONS

Viscosity	28
Classification	Wireline Lubricant and Sealant
Color	Golden Yellow
Density, lb/gal @ 77°F (25°C)	7.27
Viscosity,	
cSt @ 40°C	13,500–14,400
cps @ 77°F (25°C)	33,000–35,000
Specific gravity, @ 77°F (25°C)	0.871
Flash Point, ASTM D-93	390°F (198°C)
Rust-preventive test, ASTM D-3603 @ 140°F (60°C)	Pass
Shelf Life (unopened container)	Two years



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Master Wireline Seal

MWS 30W

(Wireline Lube & Seal)

Made in USA

- Provides sealing under extreme temperature conditions
- Protects against the corrosive effects of H₂S
- Increases wireline life
- Reduces drip and splatter at well location
- Protects against corrosion from downhole chemicals
- Prevents loss of well condensates and gases during wireline operation

Master Wireline Seal is a 30 viscosity lubricating sealant for extreme temperature sealing. The adding of corrosion inhibitors allows more effective wireline lubrication and ease of wireline operations. In addition to maintaining and holding higher seal pressures, Master Wireline Seal reduces friction of the wireline, thus keeping wear on wireline and flow tubes to a minimum. Master Wireline Seal retain higher working pressures, resulting in the reduction of loss of condensate, fluids, or gas from well.

Master Wireline Seal is most productive under extreme temperature conditions. It is also effective under high shock conditions for the reduction of drip and splatter. The special cohesive and adhesive properties prevent wellsite contaminations.

Master Wireline Seal is inhibited against the corrosive effects of acids, caustics, salt water, and hydrogen sulfide (H₂S).

This product is available in Weight of 16 gal - 128.6 lbs. and 55 gal - 430 lbs.

TYPICAL OBSERVATIONS

Color	Yellow
Texture	Tacky Yellow
Odor	Mild
API Gravity @ 60°F (15°C)	31
Density, lb/gal @ 77°F (25°C)	7.35
Specific Gravity, @ 77°F (25°C)	0.88
Flash Point, ASTM D-92	390°F (198°C)
Pour Point, ASTM D-97	31°F (-0.5°C)
Viscosity, Kinematic @ 40°C, cSt	16,500-18,500
Viscosity Index (VI)	332
Rust Preventive Test, ASTM D-3603 @ 140°F (60°C)	Pass



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Bio Master Wireline Seal

B-MWS 24W

(Bio Wireline Lube & Seal)

Made in USA

Increases wireline life
Increases protection against H₂S
Penetrates wireline to core
Economical

Protects against corrosive effects
of downhole chemicals
Easy to apply using standard spray equipment
Can be used on braided line or slick line

Bio Master Wireline Seal will protect the complete braided wireline against the corrosive effects of acids, caustics and most chemicals. Bio Master Wireline Seal is a wireline corrosion inhibitor designed and manufactured to protect wireline from the effects of corrosive chemicals commonly found downhole. It is applied at the spool to each layer of wireline. Bio Master Wireline Seal increases protection against hydrogen sulfide (H₂S) and saltwater. It contains special wetting agents which enable it to penetrate the surface to the inner core of the braided line.

Bio Master Wireline Seal is designed to be used with spray equipment commonly mounted on many wireline trucks or skid mounted units. It also provides a lubricating effect to the wireline, thus reducing wear caused by continuous use.

This product is available in Weight of 5 gal - 44.5 lbs., 16 gal - 143.8 lbs., and 55 gal - 496.5 lbs.

TYPICAL OBSERVATIONS

Color	Amber
Odor	Mild Hydrocarbon
Density, lb/gal @ 77°F (25°C)	7.10
Specific Gravity, @ 77°F (25°C)	0.851
Flash Point, ASTM D-97	148°F (64°C)
Pour Point, ASTM D-97	>-58°F (>50°C)
Viscosity, #4 Ford Cup @ 77°F (25°C)	13-15 sec
Rust-Preventative Test, ASTM D-3603	Pass
Shelf Life (unopened container)	Two Years



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Bio Master Wireline Seal B-MWS 30W (Bio Wireline Lube & Seal)

Made in USA

Biodegradable
Increases wireline life
Protects against corrosion

Non-contaminating
Reduces friction

Bio Master Wireline Seal is an superior biodegradable wireline lubricant and sealant. When Bio Master Wireline Seal is put through a control head unit, it affects a seal, decreases friction and supplies protection against corrosion during wireline operations. Bio Master Wireline Seal will take care of the complete braided wireline against the corrosive effects of acids, caustics, most chemicals and salt water. Bio Master Wireline Seal is effective under high shock conditions for the reduction of drip and spatter. The special cohesive and adhesive properties prevent wellsite contamination.

This product is available in Weight of 55 gal - 502 lbs.

TYPICAL OBSERVATIONS

Viscosity Classification	30
Color	Biodegradable
Texture	Wireline Lubricant
Density	Golden Yellow
Specific Gravity @ 77°F (25°C)	Liquid
Flash Point, ASTM D-92	8.30
Brookfield Viscosity, cps @ 77°F (25°C)	1.00
Viscosity, Kinematic cst @ 40°C	+500°F (260°C)
Fillers	30,000
Solids	16,500-18,500
Alkali	None
Oxidation Stability	None
Rust Inhibited	Nil
	Very Good
	Yes



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Master CO₂ Wireline Seal

CO₂ MWS 24W

(CO₂ Wireline Lube & Seal)

Made in USA

Not affected by CO₂ and H₂S
commonly found in wells

Low surface tension

Chemically inert

Excellent oxidation and thermal stability

Increases wireline life

Master CO₂ Wireline Seal protects wireline cable from the corrosive effects associated with carbon dioxide (CO₂) operations. Master CO₂ Wireline Seal is manufactured with totally synthetic materials (Polydimethyl Siloxane) inherently resistant to CO₂ and H₂S. Master CO₂ Wireline Seal provides the desired seal, adhesion, and lubrication properties favorable to wireline operations exposed to a CO₂ environment.

Master CO₂ Wireline Seal resists viscosity change with varying temperatures more than hydrocarbon-based wireline products

This product is available in Weight of 5 gal - 40 lbs., 16 gal - 130 lbs., and 55 gal - 450 lbs.

This product is available in 10, 12, 16, 20, 28, and 30 W.

TYPICAL OBSERVATIONS

Color	Green
Density, lb/gal @ 77°F (25°C)	8.30
Specific Gravity @ 77°F (25°C)	0.995
Viscosity, cSt @ 40°C	8,000-10,000
Flash Point, ASTM D-92	>500°F (260°C)
Pour Point, ASTM D-97	-51°F (-46°C)
Rust Preventive Test ASTM D-3603 @ 140°F (60°C)	Pass
Shelf Life (unopened container)	Two years



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Notes

Weights indicated in the catalog are product weight.

To calculate shipping weights please add:

3 LBS to the 5 Gallon Pails (Metal or Plastic)

13 LBS to 16 Gallon Drum

40 LBS to 55 Gallon Drum



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Notes



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Decades of experience in oilfield & industrial
manufacturing, supply, and services worldwide



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OILFIELD
TUBING & CASING
Thread Compounds & Sealants



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Introduction

Summit International and associated companies, take pride in decades of experience in manufacturing and supply of oilfield and industrial products to oil & gas companies, rig manufacturers, drilling contractors, casing & service companies, refineries, petrochemical and power generation plants, exploration and production operations, marine industries, engineering & construction companies, and bio-remediation projects for many decades.

We have a proven record servicing domestic and international markets. Our experience and technical knowledge have made us a prime source of supply and service to major companies worldwide. Our full range of products and services are available to all companies that are searching for the right solution.



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OILFIELD TUBING & CASING

Thread Compounds & Sealants

Thread Compound

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Thread Compound (Premium Connections)

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Lubricant and Thread Sealant

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Sealants for Downhole Tubing Leaks

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Master Thread Compound TCL 624 (Metal Free Thread Compound)

Made In USA

Metal Free
TFE Free
Non-hazardous alternative to API-Modified

Non-Contaminating
Contains corrosion inhibitors
Meets requirements for running and storage

Master Thread Compound TCL 624 provides sealing at standard make up and break out torque, meeting performance specifications for thread compounds. It provides superior lubrication to premium connections designed for metal-to-metal sealing. **Master Thread Compound TCL 624** is petroleum based, metal TFE free. It meets objectives for eliminating hazardous materials as presented in OSHA Communication 29 CFR 1910.1200, making it a superb environmentally friendly safe and non-hazardous thread compound. **Master Thread Compound TCL 624** is non-corrupting and non-hazardous. It also eliminates galvanic and environmental corrosion. It is petroleum based and metal free designed to provide maximum protection for tubing, casing, and line pipe.

This product is available in Weight of 5 gal - 40 lbs.

TYPICAL OBSERVATIONS

Color	Black
Texture	Smooth
Density, lb/gal @ 77°F (25°C)	9.40
Specific Gravity, @ 77°F (25°C)	1.126
Dropping Point, ASTM D-2265	400°F (204°C)
Flash Point, ASTM D-92	>450°F (>232°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	320
Base Oil Viscosity	
SUS @ 100°F (37°C)	1500
SUS @ 210°F (98°C)	24.5
Corrosion Preventive Properties, ASTM D-1743 @ 125°F (51°C)	Pass
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	0.17%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	0.07%
Oxidation Stability, ASTM D-942, @ 210°F (98°C) 72 hrs, PSI Loss	5
Shelf Life (unopened container)	Two years
Friction Factor	0.8



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Master Thread Compound TCL 824

(Premium Connections Thread Compound)

Made In USA

Metal-Free
Non-Toxic

Environmentally Safe
Inhibits Corrosion

Water-Repellant
Resists CO₂ and Washouts

Bio Master Thread Compound TCL 824 meets the objective for eliminating hazardous materials in the work place as presented in OSHA Communication 29 CFR 1910.1200. It is a premium connection, metal-free compound designed for tubing, casing, and line pipe service, and has a temperature range of 0°F to 500°F (-17°C to 260°C). Bio Master Thread Compound TCL 824 provides continuous sealing properties, correct make up/breakout torque and long term corrosion protection to tubular goods during storage time. The absence of metal eliminates galvanic corrosion, therefore making Bio Master Thread Compound TCL 824 the ideal thread compound for today's strict environmental concerns. It also has superior E.P. lubricity to connections designed to provide metal-to-metal sealing.

This product is available in Weight of 5 gal - 45 lbs., 16 gal - 118 lbs., and 55 gal - 475 lbs.

TYPICAL OBSERVATIONS

Color	Black
Texture	Smooth
Penetration, ASTM D-217 worked @ 77°F (25°C)	323
Density, lb/gal @ 77° F (25°C)	9.40
Temperature Range	0°F to 500°F (-17°C to 260°C)
Specific Gravity @ 77° F (25°C)	1.13
Corrosion Preventive Properties, ASTM D-1743 @ 125°F (52°C)	Pass
Flash Point, ASTM D-92	445°F (229°C)
Oil Separation, ASTM D-1742 @ 77°F (25°C)	0.5%
Oxidation Stability, ASTM D-942 @ 210°F (99°C), 72 hrs PSI Loss	6
Evaporation Loss, ASTM D-972 @ 210°F (99°C)	0.92%
Shelf Life (unopened container)	Two years



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Enviro Dual Master TJC/TC 580

(Metal Free Premium TJC/TC Compound)

Made In USA

Environmentally safe
Non-conductive
Adheres to wet joints
Corrosion inhibitor Package

Metal-Free
Prevents against galling & seizing
EP properties

Enviro Dual Master TJC/TC 580 is a premium dual thread compound with an application temperature ranging from -65°F to 500°F (-54°C to 260°C). This non-conductive, anti-galling compound contains no metals and can be used on tubing/casing as well as tool joints/drill collars. It can be used as a storage compound or running compound. In addition to extreme pressure additives, **Enviro Dual Master TJC/TC 580** contains a proprietary corrosion protection package. It is resistant to water and most drilling mud and will adhere to wet joints under demanding drilling conditions. **Enviro Dual Master TJC/TC 580** can be used on all pipe grades including corrosion resistant alloys.

This product is available in Weight of 2 gal - 18 lbs., 3 1/2 gal - 30 lbs., and 5 gal - 50 lbs. pails.

Enviro Dual Master TJC/TC 580 can be used on Drilling (tool joints/drill collars), Tubing/Casing, and Storage.

TYPICAL OBSERVATIONS

Color	Tan
Appearance	Paste
Thickener	Petroleum
Fluid Type	10.25
Density, lb/gal @ 77°F(25°C)	1.23
Dropping Point, ASTM D-2265	>500°F (260°C)
Flash Point, ASTM D-92	>450°F (232°C)
Penetration, ASTM D-217 worked@77°F (25°C)	290-320
Oil Separation, ASTM D-6184 Wt. % Loss @ 212°F (100°C)	<3.0
Copper Strip Corrosion, ASTM D-217	1A, typical
Friction Factor, Relative to API 7A1 (for drill pipe, drill collar and tool joint connections)	1.1
Relative to API 5A3 (for tubing and casing connections)	1.2
Temperature Range	-65°F to 500°F
Drilling Application (-54°C to 260°C)	-65°F to 2600°F
Anti-seize Application (-54°C to 1317°C)	Two Years
Shelf Life (unopened container)	



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Master Thread Sealant MK 045 (Thread Sealant & Lubricant)

Made in USA

- REACH Compliant
- Remains pliable, even after long use
- Seals leaking units in many cases
- Is hydrogen sulfide resistant
- Reduces friction by coating gears and internal parts
- Could be applied to oily threads
- Services a wide range of temperature from 0°F (-17°C) to >400°F (204°C)

MK 045 Master Thread Sealant offers a seal and lubricant for multiple applications that will remain pliable even after long use. The versatility of MK 045 is not found in any of the conventional lubricants. MK 045 resists H₂S, used in temperatures up to >400°F (>204°C), will service pressures up to 10,000 psi, and offers long lasting protection to coated parts operated over extended periods of time.

In general, MK 045 can be applied to threaded connections, gaskets, gear boxes, gear and chain drive units, draw works, direct rotary drives, stop cocks, wellheads, swivel joints and universal joints, as a pump and valve packing, and as an additive to truck rear ends. MK 045 can even be used to replace TEFLON tape in the prevention of galling, seizing, and protection of the threads.

Application: Apply using a dope brush. For ultimate results, apply to both male and female threaded connections no larger than 2 inches diameter. As connection is made up, MK 045 will form an even film over the threads.

TYPICAL OBSERVATIONS

Color	Green
Active Component	Teflon
Manufacturing Process	Fluoromation
Density, lb/gal @ 77°F (25°C)	8.50
Specific Gravity @ 77°F (25°C)	1.018
Dropping Point, ASTM D-2265	>500°F (>260°C)
Flash Point, ASTM D-92	>450°F (>232°C)
Lowest Service Temperature	0°F (-17°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	265-295
Base Oil Viscosity	
est, 40°C	170
est, 100°C	16.35
Corrosion Preventive Properties,	
ASTM D-1264 @ 125°F (51°C)	Pass
Water Washout Characteristics,	
ASTM D-1264 @ 100°F (37°C)	Nil
Evaporation Loss,	
ASTM D-972 @ 210°F (98°C)	2.7%
Oil Separation, ASTM D-1742	
@ 77°F (25°C)	0.10%
Oxidation Stability, ASTM-942	
@ 210°F (98°C), 72 hrs PSI Loss	3
Temperature Range	0°F to >400°F (-17°C to >204°C)
Friction Factor	0.9
Shelf Life (unopened container)	Two Years



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Master Synthetic Thread Sealant

MK 045-S

(Synthetic Thread Sealant & Lubricant)

Made In USA

- REACH Compliant
- Prevents rust and corrosion
- Remains pliable, even after long use
- Provides residual lubrication
- Services a wide range of temperature from -60°F (-51°C) to >500°F (260°C)
- Hydrogen sulfide resistant
- Reduces temperature and friction

MK 045-S Master Synthetic Thread Sealant services temperatures to >500°F (260°C) and pressures to 10,000 psi. It is made with PTFE which is unaffected by acids, oils, caustics, aviation gasoline, and common solvents. MK 045-S may be used as a thread sealant on brass, aluminum, copper, and stainless steel, as well as conventional steel threads.

MK 045-S is synthetic based, offering extreme pressure and anti-fretting characteristics with a wider temperature range than most hydrocarbon base lubricants. MK 045-S keeps equipment in top operating condition with long-lasting protection to coated parts.

In general, MK 045 can be applied to threaded connections, gaskets, gear boxes, gear and chain drive units, draw works, direct rotary drives, stop cocks, wellheads, swivel joints and universal joints, as a pump and valve packing, and as an additive to truck rear ends. MK 045 can even be used to replace TEFLON tape in the prevention of galling, seizing, and protection of the threads.

MK 045-S is recommended for equipment that is operated over extended periods of time or where shut downs are prohibited. Equipment wear will be reduced by the unique plating and coating ability of MK 045-S, providing a residual lubrication film that eliminates metal-to-metal contact.

This product is available in 16 OZ, 454 GR pint cans.

TYPICAL OBSERVATIONS (NLGI 2)

Color	Green
Appearance	Grainy
Dropping Point, ASTM D-2265	>500°F (>260°C)
Flash Point, ASTM D-92	>450°F (232°C)
Specific Gravity, @ 77°F (25°C)	1.00
Density, lb/gal @ 77°F (25°C)	8.40
Penetration, ASTM D-217 @ 77°F (25°C)	280-290
Viscosity of Base Oil cst, @ 40°C	48.31
cst, @ 100°C	5.67
Corrosion Preventive Properties, ASTM D-1743 @ 125°F (51°C)	Pass
Water Washout Characteristics, ASTM D-1264 @ 100°F (37°C)	Nil
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	2.7%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	0.10%
Oxidation Stability, ASTM D-942 @ 210°F (98°C), 72 hrs, PSI Loss	3
Temperature Range	-60°F to >500°F (-51°C to >260°C)
Friction Factor	0.8
Shelf Life (unopened container)	Two Years



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Master HI-Seal 725

(Downhole Tubing Sealant for Smaller Leaks)

Made In USA

Excellent sealing of leaks
Eliminates downtime and shutdown of equipment
Seals by differential pressure
Flexible, permanent seal
Seals under high or low pressure

Controls leaks in operating systems
Easily mixes with fresh or salt water
Does not become brittle
Does not restrict the production flow
Remains effective up to 500 °F (260 °C)

Downtime and shutdown of equipment are eliminated with **Master HI-Seal 725**. This product is used in the oilfield, petrochemical and general industries to reduce or completely seal leaks up to .10 inches in tubing, casing, line pipe and pressure control equipment. While sealing with differential pressure, **725** seals under high or low pressure and does not restrict the production flow. The seal is both flexible and permanent. **Master HI-Seal** remains effective up to 500°F (260°F).

This product is available in Weight of 5 gal - 50 lbs.

TYPICAL OBSERVATIONS

Color	Red
Odor	Mild
Active Component	PTFE
Manufacturing Process	Fluoromation
Density, lb/gal @ 77°F (25°C)	11.0
Specific Gravity @ 77°F (25°C)	1.32
Flash Point, ASTM D-92	245°F (118°C)
Shelf Life (unopened container)	One year



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Master HI-Seal 825

(Downhole Tubing Sealant for Large Leaks)

Made In USA

Excellent sealing of leaks
Eliminates downtime and shutdown of equipment
Seals by differential pressure
Flexible, permanent seal
Seals under high or low pressure

Controls leaks in operating systems
Easily mixes with fresh or salt water
Does not become brittle
Does not restrict the production flow
Remains effective up to 500 °F (260 °C)

Downtime and shutdown of equipment is eliminated with **Master HI-Seal 825**. This product is used in the oilfield, petrochemical, and general industries to reduce or completely seal leaks up to .20 inches in tubing, casing, line pipe and pressure control equipment. While sealing with differential pressure, **825** seals under high or low pressure and does not restrict the production flow. The seal is both flexible and permanent. **Master HI-Seal 825** remains effective up to 500°F (260°C).

This product is available in Weight of 5 gal - 50 lbs.

TYPICAL OBSERVATIONS

Color	Red
Odor	Mild
Active Component	PTFE
Manufacturing Process	Fluoromation
Density, lbs/gal @ 77°F (25°C)	12.0
Specific Gravity, @ 77°F (25°C)	1.44
Flash Point	245°F (118°C)
Shelf Life (unopened container)	One year



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Notes

Weights indicated in the catalog are: product weight.

To calculate shipping weights please add:

3 LBS to the 5 Gallon Pails (Metal or Plastic)

13 LBS to 16 Gallon Drum

40 LBS to 55 Gallon Drum



Summit International

a SITCO ENTERPRISES LLC company

www.summititc.com

Decades of experience in oilfield & industrial
manufacturing, supply, and services worldwide



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OILFIELD TUBULAR MAINTENANCE INHIBITORS & WATER BASED PIPE COATINGS



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Introduction

Summit International and associated companies, take pride in decades of experience in manufacturing and supply of oilfield and industrial products to oil & gas companies, rig manufacturers, drilling contractors, casing & service companies, refineries, petrochemical and power generation plants, exploration and production operations, marine industries, engineering & construction companies, and bio-remediation projects for many decades.

We have a proven record servicing domestic and international markets. Our experience and technical knowledge have made us a prime source of supply and service to major companies worldwide. Our full range of products and services are available to all companies that are searching for the right solution.



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OILFIELD

TUBULAR MAINTENANCE INHIBITORS

& WATER BASED PIPE COATINGS

Rust Prevention

- Primer and Rust Preventer 010 Page 68

Internal Pipe Coating

- Master Int. Coat 020 Page 69
- Enviro Master Int. Coat 998 Page 70
- Bio Master Int. 018 (Biodegradable) Page 71

External Pipe Coatings

- Bio Master Ext. Coat 4113 (Biodegradable) Page 72

External Water Based Pipe Coating

- Master Ext. Coat Black 2212 (Low VOC & HAPS-Free) Page 73
- Master Ext. Coat Glossy Black 2323 (Very Low VOC & HAPS-Free) Page 74
- Master Ext. Coat Clear 4112 (HAPS-Free) Page 75

Master Preventer 010 (Rust Remover & Primer)

Made In USA

Primer for paint
Turns rust to useful metallic surface

Cleans porcelain, brick, concrete, vinyl terrazzo and linoleum
Eliminates corrosion from metals such as aluminum and zinc

Master Preventer 010 is a premium surface conditioner for ferrous metals. Non ferrous metals such as aluminum, zinc, brass, copper and bronze can also be treated with **Master Preventer 010** to remove oxidation and corrosion. It is also excellent for treating metal prior to cold galvanizing. **Master Preventer 010** provides a protective coating against rust. It can be used as a protective coating, paint primer, or rust remover.

Master Preventer 010 removes rust from chrome, iron and ferrous metals. It can clean nuts and bolts and also, by applying **Master Preventer 010**, frozen nuts and bolts can be cleaned then broken out. It also removes rust on tanks, barges, tools and equipment.

As a protective coating rust is turned into a dark, protective coating by stopping the corrosion and turning the rust into an inactive state that resists further corrosion.

As a paint primer, **Master Preventer 010** fights against rusting and bleeding from underneath finished surfaces, eliminating the conditions that reduce paint and coating service life. It provides a supreme bonding surface for coatings and paint that permits better adherence to the metal therefore reducing the tendency of chipping and peeling.

Master Preventer 010 can also be used as a stain remover for porcelain, brick, concrete, vinyl, terrazzo and linoleum.

This product is available in Weight of 5 gal - 51 lbs. and 55 gal - 568 lbs.

TYPICAL OBSERVATIONS

Form	Liquid
Color	Transparent Emerald Green
Odor	Mild
Density, lb/gal @ 77°F (25°C)	10.16
Freezing Point	-25°F (-31°C)
Minimum Application, Temperature	-10°F (-23°C)
Flash Point, ASTM D-92	None
pH	>1
Suspended Solids	Nil
Sulfates	Nil
Solubility in Water	Complete
Shelf Life	Two Years



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Master Int. Coat 020 (Internal Pipe Coating)

Rust Preventer
Economical
Does not gum

Safe and easy to use
No Odors
Easily applied with conventional spray equipment

Master Internal Coat 020 is a molecularly balanced polymer with corrosion inhibitors specially formulated to provide internal corrosion protection to metal surfaces of tubular goods without reducing the ID of the pipe.

Master Internal Coat 020 is easily applied using standard spary equipment, and has no offensive odors. If cleaned and coated properly, the corrosion inhibitor package in this coation provides long term protection, leaving a slightly tacky film that will not dry, crack, gum up or ball up.

This product is available in Weight of 5 gal - 19 L and 55 gal - 208 L

TYPICAL OBSERVATIONS

Color	Amber
Odor	Mild Hydrocarbon
Density, lb/gal @ 77°F (25°C)	7.38
Specific Gravity @ 77°F (25°C)	0.884
Flash Point, ASTM D-93	145°F (62°C)
Viscosity, Brookfield #4 Ford Cup @ 77°F (25°C)	20 sec
Rust Preventon Properties, ASTM D-3603 @ 140°F (60°C)	Pass
Evaporation Loss ASTM D-972 @ 210°F (98.8°C)	30.7%
VOC, lbs/gal	2.07
Shelf Life (unopened container)	One year



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Enviro Master Int. Coat 998 (Internal Pipe Coating)

Economical
Provides excellent rust protection

Environmentally friendly
Excellent dip tank coating

Enviro Master Int. Coat 998 Provides a high resistance to corrosion. Enviro Master Int. Coat 998 will not flow and build up on the lower or bottom portion of the pipe if applied properly. Enviro Master Int. Coat 998 is an easy to apply and environmentally friendly ID (inner diameter) and OD (outer diameter) coating recommended for short term storage by rental tool companies and used pipe dealers. Enviro Master Int. Coat 998 is a vegetable oil based internal pipe coating formulated to protect the ID and OD of tubulars from the harmful effects of corrosion during storage.

This product is available in Weight of 5 gal - 39.8 lbs., 16 gal - 130.68 lbs., and 55 gal - 444.8 lbs.

TYPICAL OBSERVATIONS

Color	Golden Yellow
Texture	Liquid
Density, lb/gal @ 77°F (25°C)	7.26
Specific Gravity, @ 77°F (25°C)	0.87
Viscosity, Brookfield #4 Ford Cup @ 77°F (25°C)	13 sec
Flash Point, ASTM D-93	105°F (40°C)
VOC, lb/gal	2.27
Shelf Life (unopened container)	One year



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Bio Master Int. Coat 018 (Internal Pipe Coating)

Biodegradable
Excellent rust protection

Non-contaminating
Environmentally friendly

Hydrocarbon-free
Excellent dip tank coating

Bio Master Internal Coat 018 is a petroleum hydrocarbon-free biodegradable internal drill pipe coating specially formulated to protect the internal surface of drill pipe from the harmful effects of corrosion during storage.

Bio Master Internal Coat 018 is a non-contaminating drill pipe coating formulated with rust inhibitors designed to provide maximum protection against the effects of corrosion. It does not contain offensive fish oil odors common to some conventional coatings, and it eliminates environment contamination also associated with conventional internal tubular coatings. This makes it environmentally friendly. Bio Master Internal Coat 018 passed the LC 50 toxicity test.

This product is available in Weight of 5 gal - 42 lbs. and 55 gal - 469 lbs.

TYPICAL OBSERVATIONS

Color	Golden Yellow
Odor	Mild, fatty
Density, lb/gal @ 77°F (25°C)	7.80
Specific Gravity, @ 77°F (25°C)	0.935
Viscosity, #4 Ford Cup @ 77°F (25°C)	20 - 25 sec
Evaporation loss, ASTM D-972 @ 210°F (99°C)	0.43
Flash Point	540°F (282°C)
Pour Point, ASTM D-97	14°F (-20°C)
Rust Prevention, ASTM D-3606 @ 140°F (60°C)	Pass
Toxicity, LC50	Pass
VOC, lbs/gal	0.01
Shelf Life (unopened container)	One Year



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Bio Master Ext. Coat 4113 (External Pipe Coating)

Excellent Rust Protection
HAPS Free
Resists, cracking, peeling and scaling

Water-Based
Excellent impact resistance
Clear, high gloss finish

Fast Drying
Minimal VOC
Environmentally Friendly

Bio Master Ext. Coat 4113 is a grey, HAPS free water based pipe coating formulated to provide excellent rust protection to external tubular surfaces.

Bio Master Ext. Coat 4113 is a high performance external coating that has excellent impact resistance while providing good surface penetration. It is the latest available technology in water-borne coatings. 4113 is an environmentally friendly, fast drying coating that provides minimal VOC emissions and exhibits good adhesion to steel surfaces. Bio Master Ext. Coat 4113 has minimizing metal loss. Bio Master Ext. Coat 4113 produces a grey, durable film that resists cracking, peeling or scalling off under varying conditions, and is manufactured using biodegradable materials.

This product is available in Weight of 55 gal - 502 lbs.

TYPICAL OBSERVATIONS

Appearance	Tinted Liquid
pH	8.5
Viscosity #4 Ford Cup	19 -21 sec
Specific Gravity	1.01
Flash Point	None
Density lbs/gal @ 77°F (25°C)	8.40
Drying Time	5-8 minutes
VOC as applied, lbs/gal	<0.20
Shelf Life (unopened container)	3 -6 months



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Master Ext. Coat Black 2212

(Low VOC & HAPS-Free External Water Based Pipe Coating)

Made In USA

HAPS-free

Water based

Low VOC

Resists cracking, peeling and scaling

Black, durable film

Exhibits good adhesion to steel surfaces

Environmentally friendly

The manufacturing process for Master Ext. Coat Black 2212 is achieved by using biodegradable raw materials. Master Ext. Coat Black 2212 allows for a glossy-finished coating which will allow for long lasting protection without flash rusting, which will reduce metal loss. This black coating is environmentally friendly and HAPS-free. It provides an excellent long term protective coating to external tubular surfaces while the pipe is in storage. In terms of metal protection, this product is the result of the latest technology in waterborne coatings. Master Ext. Coat Black 2212 not only provides good adhesion to steel surfaces but also contains a fast drying coating with low VOC emissions. This product allows for good surface penetration while containing a high performance coating which has superior impact resistance. Master Ext. Coat Black 2212 has a protective film which lasts up to four years.

This product is available in Weight of 5 gal - 19 L and 55 gal - 208 L

Preparation of Surface

To clean the surface use an automatic pipe cleaning system, rotor tiller, or a wire brush. To achieve the best results use sand blasting. Before applying the coating all dust or residue should be cleared off. Pipe that has been in salt water, chemical service or exposed to H₂S should first have the proper surface cleaning and conditioning. When high humidity or raining exists do not apply coating. Before applying the coating make sure threads are well doped and pipe is completely dry. In cold weather (below 450F, 7.22oC), do not apply coating. Use water based coating within 4 months of manufacture date for best results.

Master Ext. Coat Black 2212 is used for tubing, drilling rigs, structural steel, steel tanks, pipe racks, coiled tubing, drill pipe, line pipe, and casing.

Master Ext. Coat Black 2212 comes ready-to-use. Do not dilute with water as performance may be affected.

Application

1. Check winds before the spraying process begins.
2. Once the pipes exterior has been cleaned, apply a wet film thickness from 3 to 6 mils with air or airless spray equipment. This process will produce a dry film thickness of 1 to 2 mils. The pip should be sprayed at a 60 to 90o angle on the top 1/3 uniformly with the nozzle about 12-18 from the surface using a 25% overlap pattern. The pressure can be adjusted as needed to provide a uniform breakup and desired spray pattern.
3. Roll pipe joint 120 to 150 degrees and spray again.
4. Roll pipe joint another 120o and spray the remainder of the pipe's surface. Pipe should be completely covered. Avoid formation of droplets on the underside of the pipe. DO NOT APPLY MORE THAN ONE COAT. The coating and cure time can be affected by high humidity conditions, standing water under pipe racks, or dew. Water should not be allowed to collect on top of the drum, store drum on its side or under shed. Use full strength only. Dilution of this product will reduce the coating's effectiveness.

Color
Type Coating
pH
Finish
Drying Time, ASTM D-5895
Density lb/gal, 77°F (25°C)
Specific Gravity
Viscosity, #4 Ford Cup @ 77°F (25°)

TYPICAL OBSERVATIONS

Black
Water-Based
8.5
High-medium gloss
6 minutes
8.45
1.01
18 sec



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Master Ext. Coat Glossy Black 2323

(Very Low VOC & HAPS_Free)

Made In USA

Very Low VOC (less than 1.00 lbs / gallon VOC)

HAPS-Free

Black, durable film

Environmentally friendly

Water-Based

Exhibits good adhesion to steel surfaces

Resists cracking, peeling and scaling

Master Ext. Coat Glossy Black 2323 is manufactured using biodegradable materials. It is a high performance coating that has excellent impact resistance while providing good surface penetration, producing a durable, black film that resists cracking, peeling or scaling under various conditions. It also provides a high gloss finish coating which results in long lasting protection against corrosion without flash rusting. Master Ext. Coat Glossy Black 2323 is HAPS free, water based pipe coating formulated to provide an excellent protective coating to external tubular surfaces while pipe is in storage. It is an environmentally friendly, fast drying coating that provides very low VOC emissions and exhibits good adhesion to steel surfaces.

This product is available in Weight of 5 gal - 19 L and 55 gal - 208 L

TYPICAL OBSERVATIONS

Color	Black Gloss
Type	Coating Polymer
pH	8.5
Gloss	High Gloss
Drying Time	5-8 minutes
Density lb/gal @ 77°F (25°C)	8.40
Specific Gravity	1.01
Viscosity #4 Ford Cup	19-21 Sec
Flash Point	None
VOC lb/gal	<0.50
Shelf Life (unopened container)	3-6 months



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Master Ext. Coat Clear 4112

(HAPS Free External Water Base Pipe Coating)

Made In USA

HAPS-free

Water based
Resists cracking, peeling
Excellent protection against rusting and pitting
Protects against intrusion by saltwater, H₂S, and
down hole chemicals

Clear, durable film
Exhibits good adhesion to steel surfaces
Will not harden, dry out, evaporate, or oxidize
Resists moisture encroachment
Meets API specifications

Master Ext. Coat Clear 4112 can be used for tubing, casing, line pipe, drill pipe, coiled tubing, pipe racks, steel tanks, structural steel and drilling rigs. It is a high performance coating that has excellent impact resistance while providing good surface penetration. Master Ext. Coat Clear 4112 produces a fast drying, good adhesion to steel surfaces. The finish is a high gloss coating which results in longer lasting protection against corrosion without flash rusting, therefore minimizing metal loss. Master Ext. Coat Clear 4112 is manufactured using biodegradable raw materials and is HAPS-free (hazardous Air Polluting Substance-free) and provides low VOC (Volatile Organic Compounds) emissions. This water based, environmentally friendly, clear pipe coating is the latest in waterborne coatings in terms of metal protection. Master Ext. Coat Clear 4112 provides an excellent temporary protective coating to external tubular surfaces while in storage.

This product is available in Weight of 5 gal - 46.65 lbs. and 55 gal - 503.65 lbs.

TYPICAL OBSERVATIONS

Color	Clear
Type Coating	Water-base
Resin	Synthetic polymer
pH	8.5
Gloss	High-medium
Drying Time, ASTM D-5895	4-6 Minutes
Density, lb/gal @77°F (25°C)	8.42
Specific Gravity	1.01
Flash Point, ASTM D-93	None
Viscosity, #4 Ford Cup @ 77°F (25°C)	18 sec
VOC, as applied, lbs/gal	1.16
VOC, EPA Method 24, lbs/gal	3.47
Shelf Life (unopened container)	3-6 months



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To calculate shipping weights please add:

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13 LBS to 16 Gallon Drum

40 LBS to 55 Gallon Drum



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SPECIALTY MAINTENANCE PRODUCTS

Specialty Lubricants, Rig Wash / Degreaser, Descaler, Fuel Additives



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Introduction

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We have a proven record servicing domestic and international markets. Our experience and technical knowledge have made us a prime source of supply and service to major companies worldwide. Our full range of products and services are available to all companies that are searching for the right solution.



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SPECIALTY MAINTENANCE PRODUCTS

Specialty Lubricants, Rig Wash / Degreaser, Descaler, Fuel Additives

Specialty Lubricants & Sealants

- Lube All 007 Page 82
- Lube All 007-S Page 83
- Master Thread Sealant MK 045 Page 84
- Master Synthetic Thread Sealant MK 045-S Page 85
- Master Fluid 480 Page 86

Rust Preventers

- Primer and Rust Preventer 010 Page 87

Rig Wash & Degreasers

- Master Rig Wash MRW 55 Page 88

Descalers

- Master Bio Descaler BD 69 Page 89

Additives ~Fuel Additives~

- Antioxidant 07D (Diesel) Page 90
- Antioxidant 07G (Gasoline) Page 91

Master Lube All

Lube All 007

(Multi Purpose Polymer Lubricant)

Resists wash out
Prevents corrosion
Reduces friction and wear

Premium multipurpose grease for all operations
Services temperatures from 10°F to >450°F (-23°C to >232°C)
Provides residual lubrication to critical areas of downhole tools

Lube All 007 is a superb multipurpose, water-repellent lubricant/grease for all applications including but not limited to oilfield, marine, automotive, industrial, and manufacturing industries.

Lube All 007 is recommend for variety of applications such as wireline, wireline vehicles, winches, drilling, drilling tools, vehicle lubrications, downhole drilling tools, downhole tools where washout prevention is necessary, sealing, WKM gate, pipeline ball valves, wellhead and valves, gear box, rollers, pulleys, bearing, wheel bearings, water pumps, water well rigs, vehicles, Trailer hitch, and many other equipment and parts.

Lube All 007 Fulfills complete lubricating grease requirements. It provides a microscopic lubricating coating that eliminates metal-to-metal contact and residual lubrication long after other lubricants have washed out. It is used where washout resistance is critical to operation. Lube All 007 provides excellent stability and EP characteristics. It remains on bearing surfaces longer, prolonging bearing life and extending lubrication intervals. Lube All 007 adds stability and resistance to chemical change.

This product is available in Weight of 1 gal - 7 lbs., 5 gal - 35 lbs., 16 gal - 120 lbs., and 55 gal - 400 lbs.

TYPICAL OBSERVATIONS

Color	Light Green
Texture	Smooth, Stringy
Thickener	Lithium Complex
Density, lb/gal @ 77°F (25°C)	7.55
Specific Gravity, @ 77°F (25°C)	0.904
Penetration, ASTM D-217 @77°F (25°C)	280 - 290
Flash Point, ASTM D-92	530°F (277°C)
Dropping Point, ASTM D-2265	>500°F (>260°C)
Corrosion Preventive Properties, ASTM D-1743 @ 127°F (51°C)	Pass
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	Nil
Viscosity of Base Oil cst, @ 40°C	154.3
cst, @ 100°C	12.1
Water Washout Characteristics, ASTM D-1264 @ 100°F (37°C)	2.8%
Four Ball Wear Test, ASTM D-2266, 40 Kg, 1200 rpm @ 167°F (80°C), 1 Hr. Average Wear Scar. Diam, mm	0.72
Low Temperature Torque, ASTM D-1478 @ -25°F (-31°C) Gram-Cm Starting Above 14.750 Running 10 Min. Running 60 Min	-25°F (-31°C) 5900 1829
Oil Separation, ASTM D-1742 @ 77°F (25°C)	2.6%
Oxidation Stability, ASTM D-942, @ 210°F (98°C), 100 Hrs, PSI Loss	2.0
Wheel Bearing Leakage, ASTM D-1263 @ 235°F (112°C), 660 rpm, and 6 Hrs. No Presence of Varnish, Gum, or Lacquer-Like Materials on the Bearing Surface	0.19 grs.
Roll Stability, ASTM D-1831, 2 Hr. @ 77°F (25°C), Initial Penetration @ 77°F (25°C)	268
Final Penetration @ 77°F (25°C), Change	279 +11
4-Ball EP Weld Load, Kgf (ASTM D-2596)	315 Pass 400 Weld
Timken Load, lb, ASTM D-2509	70
Shelf Life (unopened container)	Two Years



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Master Lube All Synthetic

Lube All 007-S

(Multi Purpose Synthetic Polymer Lubricant)

Resists wash out
Prevents corrosion
Reduces friction and wear

Premium multipurpose grease for all operations
Service temperatures from -50°F to >450°F (-45°C to >232°C)
Provides residual lubrication to critical areas of downhole tools

Lube All 007-S is a superb synthetic polymer based multipurpose, water-repellent lubricant/grease for all applications including but not limited to oilfield, marine, automotive, industrial, and manufacturing industries.

Lube All 007-S is recommend for variety of applications such as wireline, wireline vehicles, winches, drilling, drilling tools, vehicle lubrications, downhole drilling tools, downhole tools where washout prevention is necessary, sealing, WKM gate, pipeline ball valves, wellhead and valves, gear box, rollers, pulleys, bearing, wheel bearings, water pumps, water well rigs, vehicles, Trailer hitch, and many other equipment and parts.

Lube All 007-S Fulfills complete lubricating grease requirements. It provides a microscopic lubricating coating that eliminates metal-to-metal contact and residual lubrication long after other lubricants have washed out. It is used where washout resistance is critical to operation.

Lube All 007-S provides excellent stability and EP characteristics. It contains teflon, which provides residual lubrication that remains on bearing surfaces prolonging bearing life and extending lubrication intervals. Lube All 007-S adds stability and resistance to chemical change.

This product is available in Weight of cart pack (10/pack of 14 oz.) 9 lbs., Case (12 pack of 20 oz.) 10.5 lbs., Case (40 pack of 14 oz.) 35 lbs., 1 gal - 7 lbs., 16 gal - 120 lbs., and 55 gal - 400 lbs.

TYPICAL OBSERVATIONS

Color	Blue
Texture	Smooth
Thickener	PAO
Density, lb/gal @ 77°F (25°C)	7.55
Specific Gravity, @ 77°F (25°C)	0.904
Penetration, ASTM D-217 @77°F (25°C)	280 - 290
Flash Point, ASTM D-92	530°F (277°C)
Dropping Point, ASTM D-2265	>500°F (>260°C)
Corrosion Preventive Properties, ASTM D-1743 @ 127°F (51°C)	Pass
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	Nil
Viscosity of Base Oil cst, @ 40°C	154.3
cst, @ 100°C	12.1
Water Washout Characteristics, ASTM D-1264 @ 100°F (37°C)	2.8%
Four Ball Wear Test, ASTM D-2266, 40 Kg, 1200 rpm @ 167°F (80°C), 1 Hr. Average Wear Scar. Diam, mm	0.72
Low Temperature Torque, ASTM D-1478 @ -25°F (-31°C) Gram-Cm Starting Above 14.750 Running 10 Min. Running 60 Min	-25°F (-31°C) 5900 1829
Oil Separation, ASTM D-1742 @ 77°F (25°C)	2.6%
Oxidation Stability, ASTM D-942, @ 210°F (98°C), 100 Hrs, PSI Loss	2.0
Wheel Bearing Leakage, ASTM D-1263 @ 235°F (112°C), 660 rpm, and 6 Hrs. No Presence of Varnish, Gum, or Lacquer-Like Materials on the Bearing Surface	0.19 grs.
Roll Stability, ASTM D-1831, 2 Hr. @ 77°F (25°C), Initial Penetration @ 77°F (25°C)	268
Final Penetration @ 77°F (25°C), Change	279 +11
4-Ball EP Weld Load, Kgf (ASTM D-2596)	315 Pass 400 Weld
Timken Load, lb, ASTM D-2509	70
Shelf Life (unopened container)	Two Years



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Master Thread Sealant MK 045 (Thread Sealant & Lubricant)

Made in USA

- REACH Compliant
- Remains pliable, even after long use
- Seals leaking units in many cases
- Is hydrogen sulfide resistant
- Reduces friction by coating gears and internal parts
- Could be applied to oily threads
- Services a wide range of temperature from 0°F (-17°C) to >400°F (204°C)

MK 045 Master Thread Sealant offers a seal and lubricant for multiple applications that will remain pliable even after long use. The versatility of MK 045 is not found in any of the conventional lubricants. MK 045 resists H₂S, used in temperatures up to >400°F (>204°C), will service pressures up to 10,000 psi, and offers long lasting protection to coated parts operated over extended periods of time.

In general, MK 045 can be applied to threaded connections, gaskets, gear boxes, gear and chain drive units, draw works, direct rotary drives, stop cocks, wellheads, swivel joints and universal joints, as a pump and valve packing, and as an additive to truck rear ends. MK 045 can even be used to replace TEFLON tape in the prevention of galling, seizing, and protection of the threads.

Application: Apply using a dope brush. For ultimate results, apply to both male and female threaded connections no larger than 2 inches diameter. As connection is made up, MK 045 will form an even film over the threads.

TYPICAL OBSERVATIONS

Color	Green
Active Component	Teflon
Manufacturing Process	Fluoromation
Density, lb/gal @ 77°F (25°C)	8.50
Specific Gravity @ 77°F (25°C)	1.018
Dropping Point, ASTM D-2265	>500°F (>260°C)
Flash Point, ASTM D-92	>450°F (>232°C)
Lowest Service Temperature	0°F (-17°C)
Penetration, ASTM D-217 worked @ 77°F (25°C)	265-295
Base Oil Viscosity	
cst, 40°C	170
cst, 100°C	16.35
Corrosion Preventive Properties, ASTM D-1264 @125°F (51°C)	Pass
Water Washout Characteristics, ASTM D-1264 @ 100°F (37°C)	Nil
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	2.7%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	0.10%
Oxidation Stability, ASTM-942 @ 210°F (98°C), 72 hrs PSI Loss	3
Temperature Range	0°F to >400°F (-17°C to >204°C)
Friction Factor	0.9
Shelf Life (unopened container)	Two Years



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Master Synthetic Thread Sealant

MK 045-S

(Synthetic Thread Sealant & Lubricant)

Made In USA

- REACH Compliant
- Prevents rust and corrosion
- Remains pliable, even after long use
- Provides residual lubrication
- Services a wide range of temperature from -60°F (-51°C) to >500°F (260°C)
- Hydrogen sulfide resistant
- Reduces temperature and friction

MK 045-S Master Synthetic Thread Sealant services temperatures to >500°F (260°C) and pressures to 10,000 psi. It is made with PTFE which is unaffected by acids, oils, caustics, aviation gasoline, and common solvents. MK 045-S may be used as a thread sealant on brass, aluminum, copper, and stainless steel, as well as conventional steel threads.

MK 045-S is synthetic based, offering extreme pressure and anti-fretting characteristics with a wider temperature range than most hydrocarbon base lubricants. MK 045-S keeps equipment in top operating condition with long-lasting protection to coated parts.

In general, MK 045 can be applied to threaded connections, gaskets, gear boxes, gear and chain drive units, draw works, direct rotary drives, stop cocks, wellheads, swivel joints and universal joints, as a pump and valve packing, and as an additive to truck rear ends. MK 045 can even be used to replace TEFLON tape in the prevention of galling, seizing, and protection of the threads.

MK 045-S is recommended for equipment that is operated over extended periods of time or where shut downs are prohibited. Equipment wear will be reduced by the unique plating and coating ability of MK 045-S, providing a residual lubrication film that eliminates metal-to-metal contact.

This product is available in 16 OZ, 454 GR pint cans.

TYPICAL OBSERVATIONS (NLGI 2)

Color	Green
Appearance	Grainy
Dropping Point, ASTM D-2265	>500°F (>260°C)
Flash Point, ASTM D-92	>450°F (232°C)
Specific Gravity, @ 77°F (25°C)	1.00
Density, lb/gal @ 77°F (25°C)	8.40
Penetration, ASTM D-217 @ 77°F (25°C)	280-290
Viscosity of Base Oil cst, @ 40°C	48.31
cst, @ 100°C	5.67
Corrosion Preventive Properties, ASTM D-1743 @ 125°F (51°C)	Pass
Water Washout Characteristics, ASTM D-1264 @ 100°F (37°C)	Nil
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	2.7%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	0.10%
Oxidation Stability, ASTM D-942 @ 210°F (98°C), 72 hrs, PSI Loss	3
Temperature Range	-60°F to >500°F (-51°C to >260°C)
Friction Factor	0.8
Shelf Life (unopened container)	Two Years



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Master Fluid 480 (Silicone Oil)

Made In USA

Excellent thermal and oxidation stability
Odorless
Available in several viscosities

Non-corrosive
Chemically inert
Non-staining

Master Fluid 480 is a long lasting premium silicone oil for drilling and wireline applications. This fluid is inert, non-corrosive, odorless, chemically inert, non-staining to most common materials, and available in several viscosities. Master Fluid 480 displays a much smaller viscosity-temperature changes than organic hydrocarbon fluids. This product demonstrates excellent thermal and oxidation stability when exposed to high temperatures for long periods of time.

TYPICAL OBSERVATIONS

	480/50	480/100	480/200	480/250	480/350
Color	Colorless	Colorless	Colorless	Colorless	Colorless
Odor	Mild	Mild	Mild	Mild	Mild
Density, lb/gal @ 77°F (25°C)	8.09	8.10	8.12	8.13	8.15
Specific Gravity	0.97	0.97	0.97	0.97	0.98
Flash Point, ASTM D-92	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)
Solubility in Water	Insoluble	Insoluble	Insoluble	Insoluble	Insoluble
Viscosity, cst @ 77°F (25°C)	50	100	200	250	350
@ 40°C	37	74	148	210	260
@ 100°C	16	32	63	75	110
Shelf Life (unopened container)	Two years	Two years	Two years	Two years	Two years

TYPICAL OBSERVATIONS

	480/500	480/1000	480/5000	480/10000	480/12500
Color	Colorless	Colorless	Colorless	Colorless	Colorless
Odor	Mild	Mild	Mild	Mild	Mild
Density, lb/gal @ 77°F (25°C)	8.16	8.17	8.20	8.22	8.25
Specific Gravity	0.977	0.98	0.98	0.99	0.99
Flash Point, ASTM D-92	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)
Solubility in Water	Insoluble	Insoluble	Insoluble	Insoluble	Insoluble
Viscosity, cst @ 77°F (25°C)	500	1,000	5,000	10,000	12,500
@ 40°C	372	750	3,500	7,000	10,000
@ 100°C	158	350	2,000	3,500	5,000
Shelf Life (unopened container)	Two years	Two years	Two years	Two years	Two years



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Master Rust Preventer

010

(Rust Remover & Primer)

Made In USA

Primer for paint
Turns rust to useful metallic surface

Cleans porcelain, brick, concrete, vinyl terrazzo and linoleum
Eliminates corrosion from metals such as aluminum and zinc

Master Rust Preventer 010 is a premium surface conditioner for ferrous metals. Non ferrous metals such as aluminum, zinc, brass, copper and bronze can also be treated with **Master Rust Preventer 010** to remove oxidation and corrosion. It is also excellent for treating metal prior to cold galvanizing. **Master Rust Preventer 010** provides a protective coating against rust. It can be used as a protective coating, paint primer, or rust remover.

Master Rust Preventer 010 removes rust from chrome, iron and ferrous metals. It can clean nuts and bolts and also, by applying **Master Rust Preventer 010**, frozen nuts and bolts can be cleaned then broken out. It also removes rust on tanks, barges, tools and equipment.

As a protective coating rust is turned into a dark, protective coating by stopping the corrosion and turning the rust into an inactive state that resists further corrosion.

As a paint primer, **Master Rust Preventer 010** fights against rusting and bleeding from underneath finished surfaces, eliminating the conditions that reduce paint and coating service life. It provides a supreme bonding surface for coatings and paint that permits better adherence to the metal therefore reducing the tendency of chipping and peeling.

Master Rust Preventer 010 can also be used as a stain remover for porcelain, brick, concrete, vinyl, terrazzo and linoleum.

This product is available in Weight of 5 gal - 51 lbs., 55 gal - 568 lbs.

TYPICAL OBSERVATIONS

Form	Liquid
Color	Transparent Emerald Green
Odor	Mild
Density, lb/gal @ 77°F (25°C)	10.16
Freezing Point	-25°F (-31°C)
Minimum Application, Temperature	-10°F (-23°C)
Flash Point, ASTM D-92	None
pH	>1
Suspended Solids	Nil
Sulfates	Nil
Solubility in Water	Complete
Shelf Life	Two Years



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Master Rig Wash

MRW 55

(Rig Wash / Degreaser)

(Industrial Strength Equipment Cleaner and Degreaser)

MADE IN USA

FEATURES & BENEFITS:

- Heavy Duty Professional Strength Cleaning
- Super Concentrated Formula
- Quickly Removes the Toughest Dirt, Grease, and Filth
- Excellent for Industrial Equipment and Machinery
- Removes Corrosive Brake Dust Easily
- Dissolves Heavy Grease in Seconds
- Rinses Clean with Zero Residue
- Restores White Wall and Black Tires

Master Rig Wash is our strongest, most powerful degreaser designed for the toughest jobs. Our super concentrated, professional strength formula breaks down the toughest grease allowing you to rinse away years of dirty build-up and gunk. Even baked-on grease runs away from **Master Rig Wash**. **Master Rig Wash** can take any old engine or dirty undercarriage from filthy to fantastic in a matter of minutes. The professional strength cleaning power of **Master Rig Wash** can even remove the extreme industrial road grime found in many construction areas leaving your vehicle looking great with no residue.

In the world of construction and heavy machinery, dirt and grime can really wear down and deteriorate equipment that contractors and engineers depend on to finish the job. Industrial grime, filth, oil, and tar can cause premature failure to the exterior finish of equipment and machinery.

Master Rig Wash quickly and easily removes industrial dirt and debris from equipment and machinery keeping the job site clean and safe. **Master Rig Wash** removes thick dirt and grease that saturates the exterior of trucks, cranes, drilling rigs, and other heavy machinery. **Master Rig Wash** will keep your industrial equipment looking amazing for years to come.

SPECIFICATIONS:

- Appearance: Blue Liquid
- Odor: Sweet
- Specific gravity: 1.06
- pH: 11.5-12.5
- Biodegradable: Yes
- Detergency: Excellent



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Master Bio Descaler

BD 69

(Biodegradable Descaler)
(Non-Corrosive Lime, Scale & Rust Remover)

MADE IN USA

FEATURES & BENEFITS:

- Non-Hazardous, Non-Corrosive, Non-Flammable
- Safe-no special shipping, transportation or handling required
- Industrial Strength Descaler/Delimer
- Less toxic than hydrochloric acid based products

Master Bio Descaler is a water-based descaler containing wetting agents, corrosion inhibitors, anti-foam and degreasing compounds. It is designed to penetrate and remove encrusted lime scale, rust, corrosion products and dirt from water-wetted surfaces in process equipment, e.g., exchangers and liquid-ring vacuum pumps. **Master Bio Descaler** can also be used to remove lime scale in commercial and industrial applications. The formation of scale in process equipment increases pressure drop, requiring more pumping horse-power to maintain volumetric throughput. Heat transfer surfaces gradually become fouled and thermal efficiencies decrease. Pieces of scale attach themselves to rotating equipment, i.e., pumps and mixers, and cause bearing failure . If these problems sound familiar, then you know why you need to periodically clean the lime scale and rust out of the system with **Master Bio Descaler**.

Master Bio Descaler provides an excellent method to clean equipment without expensive disassembly . In many applications, the cleaning can be accomplished while the system is in operation.

Master Bio Descaler is especially designed to safely remove lime deposits or water scale from:

- Power plant boilers and piping systems and all types of evaporating equipment
- Equipment in refineries, utility companies, paper mills, chemical plants, foundries, rubber plants and other industries
- Food processing plants, meat packing plants and breweries
- Sewage disposal plants, water treating facilities and other municipal water handling operations
- Any equipment that is water cooled in any manner

SPECIFICATIONS:

- | | |
|----------------------------------|-------------------------|
| - Appearance: Light Brown Liquid | - pH: 1 - 2 |
| - Odor: Bland | - Biodegradable: Yes |
| - Specific gravity: 1.04 | - Detergency: Excellent |
| - USDA Approval: Yes | |



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Master Fuel Conditioner 07D (Diesel Fuel Conditioner)

Made in USA

Improves cold starts
Emulsifies water in system
Reduced gelling at arctic temperatures

Reduces varnish and carbon build-up
Contains fungicide and bactericide

Master Fuel Conditioner 07D increases the life of fuel injector pump bearings as a result of better lubrication through the fuel system. **Master Fuel Conditioner 07D** reduces gelling of diesel at arctic temperatures, improves fuel performance, provides fuel system protection, and also increases fuel stability by preventing sludge formation. **Master Fuel Conditioner 07D** also prevents corrosion and plugging problems associated with water in fuels and disperse existing sludge in the fuel system. It is an excellent product that emulsifies water, preventing its accumulation in the fuel system. It produces a protective film on metal surfaces in the system, making **Master Fuel Conditioner 07D** able to eliminate a variety of problems in the storage, transportation, and combustion of diesel fuels.

This product is available in Weight of 5 gal - 37.9 lbs. and 55 gal - 423.9 lbs.

TYPICAL OBSERVATIONS

Color	Brown
Appearance	Liquid
Density, lb/gal @ 77°F (*25°C)	6.98
Specific Gravity @ 77°F (25°C)	0.836
Flash Point, ASTM D-56	>130°F (54°C)
Auto Ignition Temperature	495°F (257°C)
Freezing Point	-144°F (-97°C)
Viscosity, #4 Ford Cup @ 77°F (25°C)	12 sec
Shelf Life (unopened container)	Two years



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Master Fuel Conditioner 07G (Gasoline Fuel Conditioner)

Made In USA

Improves cold starts
Emulsifies water in system
Reduced gelling at arctic temperatures

Reduces varnish and carbon build-up
Contains fungicide and bactericide

Master Fuel Conditioner when used continuously in gasoline, prevents gums and varnishes from separating and leaving deposits. It neutralizes the acids produced by the burning of gasoline in the engine. It eliminates a variety of problems in the storage, transportation, and combustion of gasoline. **Master Fuel Conditioner** brings about more complete combustion helping to reduce accumulations of harmful deposits in the firing chamber.

This product is available in Weight of 5 gal - 37.5 lbs.

TYPICAL OBSERVATIONS

Color	Red
Density, lb/gal @ 77°F (*25°C)	6.70
Specific Gravity @ 77°F (25°C)	0.80
Initial Boiling Point	>300°F (>148°C)
Flash Point, ASTM D-56	105°F (40°C)
Auto Ignition Temperature	>500°F (>260°C)
Freezing Point	Not Determined
Viscosity, #4 Ford Cup @ 77°F (25°C)	9 - 10 sec



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Notes

Weights indicated in the catalog are product weight.

To calculate shipping weights please add:

3 LBS to the 5 Gallon Pails (Metal or Plastic)

13 LBS to 16 Gallon Drum

40 LBS to 55 Gallon Drum



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Notes



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Decades of experience in oilfield & industrial
manufacturing, supply, and services worldwide



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ABOUT US

Summit International, an American based company, is a manufacturer and supplier of quality oilfield and industrial products. Our company has proudly provided products and services to oil & gas companies, rig manufacturers, drilling contractors, casing & service companies, refineries, petrochemical and power generation plants, exploration and production operations, marine industries, engineering & construction companies, and bio-remediation projects for many decades.

Summit **FR** Work Apparel



Summit Vault™ Chemical Injection Systems and Summit Chemicals



Summit Oilfield Lubes/Seals and WHM Lubrication Systems



Oilfield & Refineries Tools, Equipment, & Technologies



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Our decades of experience in oilfield and industrial supply and services is available to our valued customers and prospective clients worldwide. We welcome the opportunity to be of service on all your requirements.



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