

Multan®



Henkel Industrial Solutions Metalworking Fluids Selector Guide





At Henkel Corporation, we provide solutions to industry's biggest challenges. We are dedicated to understanding the markets we serve and developing partnerships that stand the test of time. Our customers have long recognized us as the leader in surface treatment, sealant, adhesive and metalworking lubricant technologies.

For more than 100 years, Henkel has been the leading supplier of state-of-the-art metal pretreatment and metalworking technologies. Henkel offers a full line of metalworking fluids designed to extend tool life, reduce wastes, improve quality and increase throughput. From straight oils to synthetics, our products for metal forming, metal removal and rust prevention contain necessary additives that meet the needs of light- to heavy-duty industry applications.

To help you compete in today's challenging manufacturing environment, our chemists and engineers work in partnership with our customers to improve design, assembly, productivity and profitability. Whether you need consultation on our products' performance or a turnkey process design, Henkel provides solutions.

Henkel Brands



Since the early 1970s, Multan® branded products have been synonymous with metal removal and forming lubricants. From liquids to pastes, these water-miscible and non-water-miscible products are used in manual and automated application systems. Multan® branded products are available in fully synthetic, semisynthetic, soluble or straight oil formulations.



Helping manufacturers since the late 1920s, P3® brand cleaners are for metallic and nonmetallic surfaces, fouling prevention and corrosion protection, together with disinfection of water and use with wastewater treatments. These products are liquid/powdery products designed for use in low and high temperature applications at different pH ranges (acid, neutral and alkaline), and in high-pressure applications, depending on customer conditions.



This selector guides will aid you in choosing the right solution and product for a wide range of common industrial challenges. For additional information on Henkel products, please contact us at 1.800.562.8483.

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Metalworking Fluids

METAL REMOVAL

SYNTHETIC

Multan® 2307GT™ – Oil-rejecting, true solution synthetic fluid designed for machining, grinding and roll forming ferrous alloys. Its unique composition of corrosion inhibitors, lubricity additives and bio-resistant components provide a durable low foaming, hard water stable product

Multan® 3105™ – An oil-rejecting, synthetic fluid designed for machining, grinding and roll-forming ferrous and non-ferrous alloys. It is also suitable for use on brass, copper and other exotic metals.

Multan® 5500™ – Oil-absorbing true solution synthetic fluid designed for machining and grinding ferrous and aluminum alloys. Its unique composition of corrosion inhibitors, Extreme Pressure (EP) additives, lubricity additives and biocides provide a durable, low foaming, hard water stable product for today's light to heavy machining and grinding operations.

Multan® 8304™ – Oil-absorbing true solution synthetic fluid designed for machining and grinding ferrous and aluminum alloys. Its unique composition of corrosion inhibitors, Extreme Pressure (EP) additives, lubricity additives and biocides provide a durable, low foaming, hard water stable product for today's light to heavy machining and grinding operations.

Multan® 9103™ – An oil-rejecting synthetic metal removal fluid that has multiple uses in today's manufacturing environment. For use on ferrous alloys only.

Products	Order Item Number	Container Weight (kg)	Container Size	Concentrate Color	Rust-Free Conc. (%) - Cast Iron	Viscosity - H ₂ O Solubles (cPs), Oils (Sus @ 100°F)	Oil Content Range (%)	Typical Concentration	Substrate Compatibility			
									Steel	Cast Iron	Aluminum*	Yellow (Copper / Brass)*
Multan® 2307GT™	595405	209	Drum	Blue	3	N/A	0	5%-10%	X	X		
Multan® 3105™	598807	18	Pail	Pale Amber	4	N/A	0	5%-10%	X	X	X	X
	599088	211	Drum									
Multan® 5500™	597726	213	Drum	Hazy	3	N/A	0	5%-10%	X	X		
	665569	18	Pail	Hazy	3	N/A	0	5%-10%	X	X		
Multan® 8304™	595400	216	Drum	Hazy	3	N/A	0	5%-10%	X	X		
Multan® 9103™	593832	20	Pail	Blue	3	N/A	0	5%-10%	X	X		
	596262	213	Drum									

* Individual alloys should be tested prior to recommendation.

SEMISYNTHETIC

Multan® B 163™ – A low oil, water soluble, semisynthetic fluid. It is designed for light- to moderate-duty machining and grinding on both ferrous and non-ferrous alloys. It can be used in applications where soft water or process requirements make foam more difficult to control. Its ability to maintain part and machine cleanliness allows it to run at lower makeup rates which lower overall product consumption. Multan® B 163™ also provides a bio-resistant fluid system to help eliminate the need for routine additives and reduces total operational expenses.

Multan® B-236™ – A low foam, water soluble, semisynthetic fluid designed for machining and grinding ferrous and aluminum alloys. It is designed for use in areas where soft water or process requirements make foam difficult to control. Ideal for applications where RO/DI water is used.

Multan® B-414™ – A low foam, water soluble, semisynthetic fluid designed for machining and grinding ferrous and non-ferrous alloys. It is designed for use in areas where soft water or process requirements make foam difficult to control. Its wide applicability makes it suitable for use on brass, copper and other exotic metals. It is also suitable on harder to machine alloys such as stainless steel, titanium or inconel.

Products	Order Item Number	Container Weight (kg)	Container Size	Concentrate Color	Rust-Free Conc. (%) - Cast Iron	Viscosity - H ₂ O Solubles (cPs), Oils (Sus @ 100°F)	Oil Content Range (%)	Typical Concentration	EP Additives		Substrate Compatibility			
									Phosphorus	Sulfur	Steel	Cast Iron	Aluminum*	Yellow (Copper / Brass)*
Multan® B-163™	1533657	18	Pail	Amber	2	N/A	10-15	5%-10%	X		X	X	X	X
	1533650	202	Drum											
Multan® B-236™	1286460	18	Pail	Amber	2	200	20-25	5%-10%	X		X	X	X	X
	1286491	202	Drum											
Multan® B-414™	1183211	18	Pail	Amber	2	275	25-30	5%-10%	X	X	X	X	X	X
	1183199	197	Drum											

* Individual alloys should be tested prior to recommendation.





Metalworking Fluids

METAL REMOVAL

SOLUBLE OIL

Multan® 2140™ – A soluble oil fluid designed for machining and grinding ferrous and non-ferrous alloys. Its unique composition of corrosion inhibitors, lubricity additives and bio-resistant components provide a durable product for today's moderate to heavy machining and grinding operations.

Multan® 5600D™ – A water soluble fluid designed for machining and grinding ferrous and aluminum alloys. It is not suitable for yellow

metal alloys. Its high oil content provides excellent lubricity for various types of difficult operations.

Multan® 6011™ – A soluble oil designed for machining and grinding ferrous alloys. Its unique composition of corrosion inhibitors, Extreme Pressure (EP) additives, lubricity additives, and biocides provides a durable product for today's light to heavy machining and grinding operations.

Products	Order Item Number	Container Weight (kg)	Container Size	Concentrate Color	Rust-Free Conc. (%) - Cast Iron	Viscosity - H ₂ O Solubles (cPs), Oils (Sus @ 100°F)	Oil Content Range (%)	Typical Concentration	EP Additives			Substrate Compatibility			
									Phosphorus	Sulfur	Chlorine	Steel	Cast Iron	Aluminum*	Yellow (Copper / Brass)*
Multan® 2140™	594451	18	Pail	Amber	N/A	160	50-55	5%-10%				X	X	X	
	593822	191	Drum	Amber	N/A	160	50-55	5%-10%				X	X	X	
Multan® 5600D™	598193	17	Pail	Amber	N/A	170	85-90	5%-10%				X	X	X	
	595510	192	Drum	Amber	N/A	170	85-90	5%-10%				X	X	X	
Multan® 6011™	1298358	18	Pail	Amber	N/A	170	70-90	5%-10%			X	X	X	X	
	594775	192	Drum	Amber	N/A	170	70-90	5%-10%			X	X	X	X	

* Individual alloys should be tested prior to recommendation.

STRAIGHT OIL

Multan® CR 10™ – This moderate viscosity straight oil with an additive package is useful in general machining applications such as hobbing, milling or shaping, ranging from steel gear machining to cutting tool manufacturing.

Multan® CR 20™ – A light viscosity oil designed for grinding ferrous and nonferrous alloys. Its unique composition of corrosion inhibitors, Extreme Pressure (EP) additives, anti-mist agents and lubricity additives provide a durable product for today's grinding and stamping operations.

Multan® CR 26™ – This unique composition of corrosion inhibitors, Extreme Pressure (EP) additives, anti-mist agents and lubricity additives provides a durable straight oil product for today's moderate broaching operation.

Multan® CR 67™ – A straight oil metal removal fluid designed for machining and grinding ferrous and aluminum alloys. It is also suitable for use on brass, copper and other exotic metals. Although originally designed for metal removal applications, this product has also proven superb for light forming.

Multan® CR 67IC™ – A light viscosity oil designed for grinding ferrous and nonferrous alloys. Its unique composition of corrosion inhibitors, Extreme Pressure (EP) additives, anti-mist agents and lubricity additives provide a durable product for today's heavy grinding operations.

Products	Order Item Number	Container Weight (kg)	Container Size	Concentrate Color	Rust-Free Conc. (%) - Cast Iron	Viscosity - H ₂ O Solubles (cPs), Oils (Sus @ 100°F)	Oil Content Range (%)	Typical Concentration	EP Additives			Substrate Compatibility			
									Phosphorus	Sulfur	Chlorine	Steel	Cast Iron	Aluminum*	Yellow (Copper / Brass)*
Multan® CR 10™	593816	16	Pail	Amber	N/A	120	90-95	100%	X			X	X	X	X
Multan® CR 20™	594878	17	Pail	Amber	N/A	220	90-95	100%	X			X	X	X	X
	594248	181	Drum	Amber	N/A	220	90-95	100%	X			X	X	X	X
Multan® CR 26™	910512	16	Pail	Amber	N/A	220	75-80	100%	X	X		X	X	X	X
Multan® CR 67™	594463	177	Drum	Amber	N/A	75	90-95	100%	X			X	X	X	X
	594274	14	Pail	Amber	N/A	75	90-95	100%	X			X	X	X	X
Multan® CR 67IC™	867957	17	Pail	Amber	N/A	85	90-95	100%	X		X	X	X	X	X

* Individual alloys should be tested prior to recommendation.

Metalworking Fluids

METAL FORMING

SYNTHETIC

Multan® F 1009™ – A water soluble synthetic fluid designed for use on medium to heavy forming applications. These applications could include heavy stamping, deep drawing, progressive dies or deep bending. The concentration range of this product makes it ideal for a variety of applications including mower decks, sinks or automotive seat rails.

Multan® F 2004™ – A synthetic compound designed for deep drawing and stamping of ferrous and aluminum alloys. Its unique composition of corrosion inhibitors, Extreme Pressure (EP) additives and lubricity additives provide a durable product for today's moderate to heavy drawing and stamping operations.

Multan® F 737™ – True solution synthetic fluid designed for stamping and drawing. Its unique composition makes it a preferred choice to replace solvent-based evaporative lubricants. Product is safe on steel, galvanize and aluminum.

Multan® F 747™ – Synthetic-based compound designed for drawing ferrous, galvanized and aluminum alloys. Its unique composition of corrosion inhibitors and lubricity additives provide a durable product for today's heavy drawing operations.

Multan® F 750™ – A water soluble synthetic fluid designed for use on light to heavy forming applications. Multan® F 750™ contains a temperature activated polymer, which is ideal for settings where elevated metal temperatures are possible in the operation.

Products	Order Item Number	Container Weight (kg)	Container Size	Viscosity (cPs)	Typical Dilution	Boundary		EP Additives			Substrate				
						Fatty Acids	Esters	Chlorine	Phosphorous	Sulfur	Plain Steel	Galvanized / Zinc Alloy*	Yellow Metals*	Stainless Steel	Aluminum*
Multan® F 1009™	593857	209	Drum	460	5%-100%	X					X			X	
Multan® F 2004™	635811	18	Pail	1200	5%-100%	X			X		X			X	
	772350	215	Drum												
Multan® F 737™	985614	18	Pail	13	Neat						X	X	X	X	X
	595800	200	Drum												
Multan® F 747™	597523	18	Pail	Not Tested	5%-50%						X	X	X	X	X
	595363	204	Drum												
Multan® F 750™	595446	209	Drum	120	5%-50%	X					X	X	X	X	X
	596044	18	Pail												

* Individual alloys should be tested prior to recommendation.



Metalworking Fluids

METAL FORMING

SOLUBLE OIL

Multan® F 927 F™ – A soluble oil designed for drawing and stamping of ferrous, galvanized, aluminum and copper alloys. Its unique composition of corrosion inhibitors and Extreme Pressure (EP) additives provide a durable product for today's heavy drawing and stamping operations.

Multan® F 927 KW™ – A soluble oil designed for drawing and stamping of ferrous, galvanized and aluminum alloys. Its unique composition of corrosion inhibitors, Extreme Pressure (EP) additives and lubricity additives provide a durable product for today's heavy drawing and stamping operations.

Multan® F 985™ – Another versatile soluble oil fluid designed for stamping, drawing, machining and grinding both ferrous and nonferrous alloys. This material is safe on zinc-coated metals and performs well in stainless steel applications.

Products	Order Item Number	Container Weight (kg)	Container Size	Typical Dilution	Boundary		EP Adds			Substrate				
					Fatty Acids	Esters	Chlorine	Phosphorous	Sulfur	Plain Steel	Galvanized / Zinc Alloy*	Yellow Metals*	Stainless Steel	Aluminum*
Multan® F 927 F™	593842	222	Drum	10%-100%			X			X	X	X	X	X
	598113	18	Pail											
Multan® F 927 KW™	595294	204	Drum	10%-100%			X			X	X	X	X	X
	594263	19	Pail											
Multan® F 985™	593248	18	Pail	10%-100%	X	X		X	X	X	X		X	X

* Individual alloys should be tested prior to recommendation.

SOLVENT

Multan® PL 633™ – Solvent-based fluid designed for use on light to medium forming applications. These applications could include stamping, punching, piercing or bending of metals. This product is suitable on all metal substrates including pre-painted materials. Examples of product usage include fin manufacturing, frames, brackets or floor molding.

Products	Order Item Number	Container Weight (kg)	Container Size	Viscosity (cPs)	Typical Dilution	Boundary		EP Adds			Substrate				
						Fatty Acids	Esters	Chlorine	Phosphorous	Sulfur	Plain Steel	Galvanized / Zinc Alloy*	Yellow Metals*	Stainless Steel	Aluminum*
Multan® PL 633™	594867	152	Drum	30	100%		X				X	X	X	X	X

* Individual alloys should be tested prior to recommendation.

Henkel's full line of quality metal forming products for stamping and drawing are available in a variety of chemistries including straight oils, emulsions, synthetics or dry films.

STRAIGHT OIL

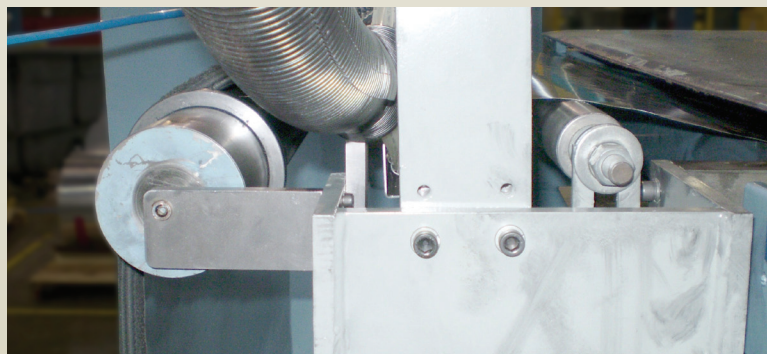
Multan® PL 1439™ – A low VOC lubricant designed for light high-speed stamping. It was designed primarily for fin stamping, used in the heating, cooling and radiator industry where excellent hydrolytic stability and refrigerant compatibility is required. Multan® PL 1439™ provides superior performance with low coating weights when used in conjunction with Henkel's Appli-Coater® lubricant delivery system.

Multan® PL 198™ – An oil-based compound designed for tube hydroforming of ferrous and aluminum alloys. Its unique composition of Extreme Pressure (EP) additives and lubricity additives provides a durable product for today's heavy tubular hydroforming operations. Its unique properties including viscosity allow it to be used also in heavy or deep draws. Rollcoating, dripping, flooding, airless spraying, hand application and other techniques are suitable for application to the metal surface.

Multan® PL 298™ – An oil-based compound designed for tube hydroforming of ferrous and aluminum alloys. Its moderate viscosity allows for a wide range of additional uses in heavy metal forming operations.

Products	Order Item Number	Container Weight (kg)	Container Size	Viscosity (cPs)	Typical Dilution	Boundary		EP Adds			Substrate				
						Fatty Acids	Esters	Chlorine	Phosphorous	Sulfur	Plain Steel	Galvanized / Zinc Alloy*	Yellow Metals*	Stainless Steel	Aluminum*
Multan® PL 1439™	994017	16	Pail	55	100%						X	X	X	X	X
	994018	171	Drum												
Multan® PL 198™	772632	191	Drum	1850SUS @100°F	100%	X			X	X	X	X	X	X	X
	721888	18	Pail												
Multan® PL 298™	928486	15	Pail	250	100%	X			X	X	X	X	X	X	X
	928485	181	Drum												

* Individual alloys should be tested prior to recommendation.





Metalworking Fluids

METAL ROLLING

SYNTHETIC

Henkel's synthetic metal forming products for roll-forming are capable of meeting all metal types and end-use production needs.

Multan® 3015™ – An oil-rejecting, synthetic fluid designed for machining, grinding and roll-forming ferrous and non-ferrous alloys. It is also suitable for use on brass, copper and other exotic metals.

Multan® 3107™ – True solution synthetic fluid designed for ferrous and most non-ferrous alloys. Its unique composition of corrosion inhibitors, lubricity additives and biocides provide a durable product for today's tube forming and moderate machining and grinding operations. Particularly suitable for galvanized and zinc coated steel.

Multan® F 325™ – A water soluble, biodegradable, synthetic lubricant. Contains no mineral oil, chlorine or sulfur. Excellent for use in tube mills or roll-forming lines running ferrous or non-ferrous materials. Particularly suitable for galvanized and zinc-coated steel. Multan® F 325™ is widely employed by tube mills producing fence post or conduit, in addition to roll formers of construction related galvanized parts.

Multan® F 329™ – A biodegradable, synthetic lubricant. Excellent for use in tube mills or roll-forming lines running ferrous or non-ferrous materials. Particularly suitable for galvanized and zinc-coated steel. Multan® F 329™ is designed to also provide additional interim corrosion protection on uncoated steel (e.g., CRS) goods prior to further processing.

Products	Order Item Number	Container Weight (kg)	Container Size	Concentrate Color	Rust-Free Conc. (%) - Cast Iron	Viscosity - H ₂ O Solubles (cPs), Oils (Sus @ 100°F)	Oil Content Range (%)	Typical Concentration	EP ADDITIVES		SUBSTRATE COMPATIBILITY			
									Phosphorus	Sulfur	Steel	Cast Iron	Aluminum*	Yellow (Copper / Brass)*
Multan® 3015™	598154	20	Pail	Yellow	4		0	5%-10%			X	X		
	594286	214	Drum	Yellow	4		0	5%-10%			X	X		
Multan® 3107™	597524	209	Drum	Pale Amber	4		0	5%-10%			X	X	X	X
Multan® F 325™	1249162	18	Pail	Red	4		0	5%-10%			X	X		
	1249164	209	Drum	Red	4		0	5%-10%			X	X		
Multan® F 329™	1327533	18	Pail	Red	3		0	5%-10%			X	X	X	
	1327535	206	Drum	Red	3		0	5%-10%			X	X	X	

* Individual alloys should be tested prior to recommendation.

Metalworking Fluids

PROCESS CLEANERS

NEUTRAL CLEANER

The unique composition of alkalinity, corrosion inhibitors and surfactants provides a durable, low-foaming, hard water-stable product for today's light- to moderate-duty cleaning and protecting needs.

P3® Neutracare® 5088™ – A neutral-based cleaner with corrosion inhibitors designed for short-term corrosion protection on ferrous alloys provides a durable, low-foaming product for moderate-duty corrosion protection.

P3® Neutracare® 5156™ – A neutral-based in-process cleaner with corrosion inhibitors designed for short-term corrosion protection on ferrous and aluminum alloys. Its unique composition of alkalinity, corrosion inhibitors, surfactants and biocides provides a durable low-foaming product for today's light- to moderate-duty cleaning and protecting needs.

P3® Neutracare® 5175™ – A phosphated neutral cleaner with in-process corrosion prevention, designed to be used at a moderate temperature (120°F-160°F). For use on ferrous alloys only.

P3® Neutracare® 5220-1™ – Neutral-based, in-process cleaner with corrosion inhibitors designed for short-term corrosion protection on ferrous, galvanized and aluminum alloys. Its unique composition of builders, corrosion inhibitors and surfactants provides a durable, low-foaming product for today's light- to moderate-duty cleaning and protecting needs.

Products	Order Item Number	Container Weight (kg)	Container Size	Cleaner Type	Oil Splitting	Ambient To 120°F	120°F To 160°F	160°F +	Borates	Phosphates	Spray	Immersion	Ferrous	Aluminum*
P3® Neutracare® 5088™	597978	18	Pail	Organic	X		X				X	X	X	X
	593241	209	Drum											
P3® Neutracare® 5156™	594045	211	Drum	Organic	X	X								
	596348	18	Pail											
P3® Neutracare® 5175™	1265623	18	Pail	Organic	X		X		X	X	X	X	X	
	1265826	232	Drum											
P3® Neutracare® 5220-1™	594241	234	Drum	Organic	X		X		X	X	X	X	X	X
	595321	18	Pail											

* Individual alloys should be tested prior to recommendation.



Metalworking Fluids CORROSION PREVENTATIVES

P3® PREVOX SERIES OF CORROSION PREVENTATIVES

The P3® Prevox Series includes a full line of corrosion preventative fluids designed to extend life, improve quality and increase throughput. From synthetics to straight oils, our products for corrosion prevention contain necessary additives that meet the needs of light- to heavy-duty industry applications.

SYNTHETIC

P3® Prevox 4232™ – A synthetic corrosion inhibitor designed for short-term corrosion protection on ferrous alloys. Its unique composition provides a durable product for today's light-duty corrosion protecting needs.

P3® Prevox 501™ – A synthetic corrosion inhibitor designed for short-term corrosion protection on ferrous alloys. Its unique composition provides a durable, low-foaming product for today's moderate-duty corrosion protecting needs.

P3® Prevox 505™ – A synthetic corrosion inhibitor designed for short-term corrosion protection on ferrous alloys. Its unique composition provides a durable, low-foaming product for today's moderate-duty corrosion protecting needs.

								Application		Film						Metals		
Products	Order Item Number	Container Weight (kg)	Container Size	Storage	% Solids	Typical Dilution	Typical Storage Time*	Spray	Dip	Wax	Tacky	Oil	Fluid	Plastic / Crystalline	Steel	Cast Iron	Non-Ferrous**	
P3® Prevox 4232™	594762	206	Drum	Short-Term		3%-20%	4 Wks.	X	X				X		X	X		
	595511	18	Pail															
P3® Prevox 501™	594014	18	Pail	In-Process	45	3%-20%	2 Wks.	X	X		X			X	X	X		
	595486	236	Drum															
P3® Prevox 505™	594827	213	Drum	Short-Term		3%-20%	4 Wks.	X	X				X		X	X		
	596698	18	Pail															

SOLUBLE OIL

P3® Prevox 5800™ – A soluble oil corrosion inhibitor designed for long-term corrosion protection on ferrous and non-ferrous alloys. Its unique composition provides a durable product for today's corrosion protecting needs.

								Application		Film						Metals	
Products	Order Item Number	Container Weight (kg)	Container Size	Storage	% Solids	Typical Dilution	Typical Storage Time*	Spray	Dip	Wax	Tacky	Oil	Fluid	Plastic / Crystalline	Steel	Cast Iron	Non-Ferrous**
P3® Prevox 5800™	772736	16	Pail	EXTENDED	99	3%-20%	3 Mos.	X	X			X			X	X	X
	772736	184	Drum														

* Typical storage time will vary depending upon concentration, environmental conditions and storage.

** Individual alloys should be tested prior to recommendation.

SOLVENT

P3® Prevox 6041CR™ – A solvent-based corrosion inhibitor designed for extended corrosion protection on ferrous and galvanized alloys. Its unique composition provides a durable product for today's heavy-duty corrosion protecting needs.

P3® Prevox 4141™ – This rust inhibiting, solvent-based corrosion inhibitor is designed for extended corrosion protection on ferrous and non-ferrous alloys. Its high flash point (143°F) allows for a safer work environment without compromising rust protection.

Products	Order Item Number	Container Weight (kg)	Container Size	Storage	Typical Dilution	Typical Storage Time*	Application		Film					Metals		
							Spray	Dip	Wax	Tacky	Oil	Fluid	Plastic / Crystalline	Steel	Cast Iron	Non-Ferrous**
P3® Prevox 6041CR™	594850	163	Drum	Extended	100%	6 Mos.	X	X			X			X	X	X
	596092	18	Pail													
P3® Prevox 4141™	879523	14	Pail	Extended	100%	6 Mos.	X	X	X					X	X	X
	879524	161	Drum													

STRAIGHT OIL

Multan® PL 101™ – This highly versatile oil-based product with multiple OEM approvals is used for light forming and can also serve as a ship out rust preventative.

Products	Order Item Number	Container Weight (kg)	Container Size	Storage	% Solids	Typical Dilution	Typical Storage Time*	Application		Film					Metals		
								Spray	Dip	Wax	Tacky	Oil	Fluid	Plastic / Crystalline	Steel	Cast Iron	Non-Ferrous**
Multan® PL 101™	783463	16	Pail	Extended	100	100%	3 Mos.	X	X			X			X	X	X
	594526	179	Drum														

* Typical storage time will vary depending upon concentration, environmental conditions and storage.

** Individual alloys should be tested prior to recommendation.



Metalworking Fluids

MAINTENANCE CLEANER, DEFOAMER AND ANTI-WELD SPATTER

MAINTENANCE CLEANER

P3® Multan® S™ – System cleaner designed to emulsify tramp oils and other contaminations in coolant systems. P3® Multan® S™ circulates with the coolant while production continues to operate and cleans the machine.

Products	Order Item Number	Container Weight (kg)	Container Size	Typical Dilution	Application	
					Spray	Dip
P3® Multan® S™	596071	18	Pail	2-5%	X	X
	596164	200	Drum			

DEFOAMER

Parco® Lubricant MP-705 DF™ – Water-based, synthetic, non-silicone defoamer designed to defoam today's machining and grinding fluids.

Products	Order Item Number	Liquid	Spray	Immersion	Substrate		
					Steel/Heavy Duty	Aluminum/Magnesium	Multi-Metal
Parco® Lubricant MP-705 DF™	593997	X	X	X			X

ANTI-WELD SPATTER

Parco® AWS 104™ – A water-based, synthetic, body-in-white anti-weld spatter agent material that stays wet after application. This product is applied prior to a welding operation and reduces the deposit of weld spatter on the unpainted metal.

Products	Order Item Number	Liquid	Spray	Immersion	Substrate			Etch Heavy Etch On Al & Zn	Temperature Operating Temperature	Builders				Inter-Stage Protection
					Steel/Heavy Duty	Aluminum/Magnesium	Multi-Metal			Sodium	Potassium	Phosphate	Gluconate	
Parco® AWS 104™	593054	X	X	X			X	X	140°F-210°F		X	X	X	
	593055													

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