

TRIM[®] Straight Oils





High-tech manufacturers in precision industries including aerospace, medical, automotive, bearings, ammunitions, firearms, and performance parts produce ultimate finishes using high flash point, low mist, innovative TRIM® straight oils.

Designed for a wide range of machining operations on metals ranging from steel, 300 series stainless, aluminum, carbide, quartz to cast iron, TRIM® straight oils can:

- > solve your production issues
- > improve parts quality
- > greatly extend tool life
- > maximize performance
- > reduce downtime
- > increase your bottom line





PRODUCT	PHYSICAL PROPERTIES		CHEMICAL PROPERTIES					PERFORMANCE						APPLICATIONS						DESCRIPTION	
	Viscosity mm ² /s@ 40°C	Color	Flash Point °C	Flash Point °F	Extreme Pressure	Chlorine/ Sulphur/ Phosphorus/ Esters	Base Oil Type	Ferrous	Carbide	Aluminum	Alloys	Ceramics	Exotics	Grinding	Honing	Drilling	Broaching	Tapping & Threading	Fine Machining		General Purpose
TRIM® OE105	5.3	Colorless	170	338	EP	P	Saturated Esters	***	***	**	*	***	*	***	***	**			***	**	Very low misting, synthetic oil-based product for honing of all materials. Also suitable for very fine machining operations.
TRIM® OH200	5.7	Dark Red	102	216	-			***			**		**	**	***	*			**		Medium-duty honing and superfinishing straight oil for alloy steels; tapping/reaming cast iron and aluminum alloys. Won't stain copper.
TRIM® OG108	8.6	Colorless	198	388	-	31% Saturated Ester	Mineral Grp III Hydrocracked	***	***	***	**	***	**	***	***	***		**	***	***	Grinding oil based on hydrocracked oil and saturated ester; for grinding HSS/carbide tools and grinding of gears. Very low misting.
TRIM® OE209	9.0	Colorless	200	392	EP	P	Saturated Esters	***	***	***	**	***	**	***	***	***		**	***	***	Very low misting, synthetic oil-based product for machining/grinding all materials. Well suited to very high-pressure, chip-breaker applications.
TRIM® OG210	9.3	Straw Yellow	200	392	EP	27% Saturated Ester 0.8% Inactive Sulfur	Mineral Grp III Hydrocracked	***	***	**	***	**	**	***	**	***		**	***	***	Grinding oil based on hydrocracked oil, saturated ester and EP additives; for hard grinding of gears, other form-grinding applications.
TRIM® OE310 NS	10.6	Straw Yellow	250	482	EP	1.2% Inactive Sulfur	Ester	**		***	**		***	**	***	**	*	***	***	***	High lubricity, ester-based product for machining all materials. Specially suited to swiss style machining processes of very small components.
TRIM® OE315 NS	15.0	Straw Yellow	230	446	EP	10% Saturated Ester 0.75% Inactive Sulfur	Ester	**		***	***		***	**	**	***	*	***	***	***	High lubricity, ester-based product for machining all materials. Specially suited to heavy-duty machining processes, such as deep-hole drilling and broaching.
TRIM® OM 287	19.8	Brown	152	305	EP	Cl Inactive Sulfur		***	**	***	***		**	*		**	*	**	*	***	Contains chlorine and inactive sulfur for multi-metal capability. Works well in modern higher speed Swiss-style machines and machining centers. Very easy to wash off.
TRIM® OM 100	19.9	Clear Amber	165	330	-			***		**	**		*	*		*		*	*	**	Straight cutting oil for general machining of all metals including aluminum, copper, brass, and cast iron. Provides excellent lubricity without staining nonferrous metals.
TRIM® OE322 NS	22.0	Straw Yellow	235	455	EP	10% Saturated Ester 0.8% Inactive Sulfur	Ester	***		***	***		***	**		***	*	***	**	***	High lubricity ester-based product for machining of all materials. Proven product for machining of high-strength materials, cast metals, and gear machining. Great for Swiss-style lathes.
TRIM® OM 300	24.3	Dark Brown	152	306	EP	Cl Active Sulfur Inactive Sulfur		***			***		***	***	***	***	***	***	***	***	High-performance oil; active extreme-pressure additives reduce built-up edge with hard-to-machine materials including 300 stainless. High flash point, moderate viscosity. Very effective for difficult creepfeed grinding.
TRIM® OG225	25.0	Colorless	220	428	EP	P	Mineral Grp III Hydrocracked	***	***	**	***		***	**	**	**	**	**	**	***	High performance, Group III hydrocracked oil-based fluid formulated specifically for flute grinding of HSS tools.
TRIM® OV 2200	26.0	Amber	235	455	-		Vegetable Ester	***	**	**	***		***	**	**	**	*	***	**	***	Bio-based straight oil for machining difficult alloys and steels. Environmentally friendly and V.O.C. free. Nonchlorinated, no sulfur or animal fat. Reduces unpleasant odors and residues.
TRIM® OE330 NS	30.0	Straw Yellow	240	464	EP	2.0% Inactive Sulfur	Ester	***		***	***		***	**	***	***	***	**	*	***	Very high lubricity and EP containing ester-based oil for the heaviest duty cutting applications. Proven performer in broaching, gear cutting and honing applications versus Sunnen products.
TRIM® OM 303	32.4	Yellow	169	336	EP	P Inactive Sulfur	Mineral Grp I/II Hydrotreated	***	**	*	***		***	**	***	***	**	***	*	***	Nonchlorinated medium- to heavy-duty straight oil. Works well in screw machines, roll form threading, and other high-lube operations.
TRIM® OE335	35.0	Straw Yellow	300	572	-		Vegetable Ester	***		***	***		***	**	**	**	**	**		***	Very high lubricity, ester-based product. Specially suited to very tough applications, as gear cutting and hobbing. Also for non-cutting metal forming.

*** = best ** = better * = good



Whether your precision operation involves gear cutting, hobbing, deep hole drilling, broaching, creepfeed and form grinding, honing, thread rolling, screw machining, superfinishing, other fine machining operations, or the heaviest duty cutting applications, there is a TRIM straight oil just right for the job.

On target with OM 287

A West Coast customer who is a very high-volume, high-precision parts manufacturer, drills steels and stainless steel using TRIM® OM 287 straight oil. They have run high-performance OM 287 with great success for more than a decade and are completely satisfied with its ability to maintain tight tolerances on their precision parts. Their switch to OM 287 with its excellent lubricity provided dramatically extended tool life, which has added up to phenomenal savings on tooling costs over the past 12 years!

Dependable OM 287 straight oil achieved excellent finishes and longer tool life for this precision parts manufacturer.

Production soars TRIM OG 108

Looking for improved performance and reduced costs? Not a problem when you work with Master Fluid Solutions metalworking experts. After careful analysis of manufacturing giant MMPP (Moscow Machine-building Production Plant) Salut's machines, operation process and concerns, Master Fluid Solutions recommended a switch to TRIM OG 108.

The highly refined, hydrocracked oil-based OG 108 was the ideal choice for MMPP Salut's steel and carbide grinding of aerospace engine components and associated carbide tooling.

"Low viscosity TRIM OG 108 provides excellent detergency to keep the customer's grinding wheels clean," explains Master Fluid Solution's representative. "This, together with excellent workpiece cooling, ensures minimal burning throughout the grinding process."

TRIM OG 108 resulted in:

- > less misting
- > reduced costs
- > reduced fluid consumption
- > reduced machine maintenance
- > reduced parts waste
- > optimized parts quality

Overall running TRIM OG 108 saved MMPP Salut more than 50% of their total production cost.



Contact Us

Let us create a detailed, fact-based, customized analysis to prove just how much we can save your operation in time, material, and cost, while improving quality, with the premium solution just right for your production.

Master Fluid Solutions
www.masterfluidsolutions.com
TECH SERVICE HOT LINE: 1-800-537-3365



For prices or additional information, contact your Master Fluid Solutions Distributor.