

Metalworking & Lubricants

PMC Biogenix' metalworking additives comprise a range of performance additives derived from vegetable oils and animal fats including simple esters, polyol esters and fatty amides that can be tailored to Metalworking and Lubricants formulations. Our products may impart a variety of performance enhancing properties, including friction modification, improved lubrication, and anti-wear properties. Our vertically integrated manufacturing capability combined with in-house technical expertise, and product development capability of our "Center for Renewable Chemistry" strengthen PMC Biogenix' capability to design chemistries to meet the most demanding applications.

Esters	Chemical Name (s)	Function	Melt/Pour Point (C)	Acid Value (max)	Iodine Value (max)	Color (max) Gardner (1963)
MONOHYDRIC ALCOHOL ESTERS						
Kemester 104	Methyl Oleate	Bio-fluid	-17	2	84-92	2
Kemester 143	Methyl Tallowate	Bio-fluid	13	4	60	8
Kemester 205 (VEG)	Methyl Oleate Veg	Bio-fluid	-10	4	80-90	1
Kemester 213	Methyl Oleate/Linoleate	Bio-fluid	-8	10	130-145	3
Kemester 226	Methyl Soyate	Bio-fluid	-3	7	-	4
Kemester 210	Methyl Canolate	Bio-fluid	-15	4	100-125	4
Kemester 9514	Methyl Myristate	Non-ferrous rolling	-	3	1	2
Kemester EHO Veg	2- Ethylhexyl Oleate	Bio-fluid	-25	0.5	96	1
Kemester EHS	2- Ethylhexyl Stearate	Non-ferrous rolling	-	<2	-	1
Kemester EHP	2- Ethylhexyl Palmitate	Non-ferrous rolling	-	<2	-	1
Kemester 5721	Tridecyl Stearate	Non-ferrous rolling	5	2	4	1
POLYOL ESTERS*						
Kemester 400	Glyceryl Oleate	Friction modifier	-	1	99	4
Kemester 2000	Glyceryl Monooleate	Friction modifier	2	3	73-83	6
Kemester 1000	Glyceryl Trioleate	Friction modifier	-15	5	85-90	6
Kemester 6000	Glyceryl Stearate	Emulsifier	-	3	2	3
Kemester EGMS	Ethylene glycol Monostearate	Emulsifier	-	5	1	2
Kemester PGDO*	Propylene Glycol Dioleate	Friction modifier	-25	1	-	4
Kemester C- 5632	Sorbitan Oleate	Emulsifier	-	0-15	-	0-12
Kemester P16*	Complex Mixed Acid Ester	Bio-fluid	-	4-12	-	3
FATTY AMIDES						
Kemamide O	Oleamide	Friction modifier	70-78	1	72-95	2
Kemamide VO	Oleamide Veg	Friction modifier	-	1	-	2
Kemamide E series	Erucamide	Friction modifier	76-86	1	70-80	2
Kemester EBS	Ethylene Bistearamide	Defoamer	140-146	7	-	3

*Semi-commercial

For more information on PMC Biogenix products and services and for samples, specifications, and Technical Data Sheets (TDS) please call customer service at 800.641.2152 or 901.325.4930 or email a technical specialist at CSR@pmc-group.com.

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