

LubriTec

Synthetic Lubricant Cross Reference Chart Series

Additives Used in Synthetic Lubricants



Automotive

PCMO - OLOA(R) series: (OLOA(R) 55402, OLOA(R) 55409 & OLOA(R) 55411) (ACEA A3/B3/B4, MB229.1/3, VW), **OLOA(R) 55000 series** (API SL), **OLOA(R) 59900 series, OLOA(R) 9200** (API SH/SJ), **OLOA(R) 55400 series** (ILSAC GF-4/API SM)

VI Improver - PARATONE(R) Viscosity Index Improvers (OCP, non-functionalized, available as solid or concentrate, full range of shear stability index)

HDDEO - OLOA(R) 4500 series (API CF-4, CG-4, CH-4/SH, SJ), **OLOA(R) 59000 series** (API CJ-4/CI-4/SL, ACEA E-5), **OLOA(R) 8900 series** (ACEA E4/E6/E7, MB 228.5, MAN, and MTU), **OLOA(R) 9100 series** (API CF-4, CF-2, CF)

Note: HDDEO/PCMO Cascade Systems - OLOA(R) 8888 & OLOA(R) 9999 (both cover a wide range of current & past performance claims)

TBN Booster/Detergent - OLOA(R) 219, OLOA(R) 219C (both calcium based)

Dispersants - OLOA(R) 11000 (ashless)

PPD - OLOA(R) 19800, OLOA(R) 19803

ZDTP - OLOA(R) 262, OLOA(R) 267, OLOA(R) 269R

Small Engines

2-Stroke Motorcycles, PWCs, and ATVs and Outdoor Power Equipment - OLOA(R) 9362 and OLOA(R) 9357 (TISI, API TC, JASO FA, FB, FC, ISO EGD)

4-Stroke Motorcycle - OLOA(R) 9364J

NMMA TC-W3(TM) - OLOA(R) 340R and OLOA(R) 9333 (NMMA TC-W3, TC-WII and TCW), ashless

NMMA FC-W(TM) - OLOA(R) 22001

Industrial Engine Oils

NGEO - OLOA(R) 1255 (Low-Ash, API CF), **OLOA(R) 1255M** (Medium-Ash), **OLOA(R) 1255Z** (for Cummins B/C Series engines, and Detroit Diesel Series 50 and Series 60 engines operated on CNG or LNG), **OLOA(R) 1238A** (Low-Ash), **OLOA(R) 1299** (Ashless), **OLOA(R) 1299W** (Ashless), **OLOA(R) 1259** (landfill or digester gas), **OLOA(R) 1259B** (landfill or digester gas). Although not common for economic reasons, Ashless and Low Ash NGEOs may be formulated with synthetic basestocks with acceptable performance

RREO - OLOA(R) 2000 (LMOA Generation V and GE Generation IV Long-life), **OLOA(R) 2939** (LMOA Generation IV). Although not common for economic reasons, RREOs may be formulated with synthetic base stocks with acceptable performance for EMD type engine oils.

Drive Line

THF - OLOA(R) 9727V, OLOA(R) 9725XV, OLOA(R) 20008

Cat TO-4M - OLOA(R) 9790

Industrial

AW Hydraulic series - OLOA(R) 4992, OLOA(R) 4994, and OLOA(R) 9740 (all ash-containing). Although not common for economic reasons, AWHOs may be formulated with synthetic base stocks with acceptable performance.

Industrial Gear - OLOA(R) 9151XJ, OLOA(R) 9570 (Borate EP)

Performance listed is not all-inclusive. Please contact your Oronite sales representative for further product information.



- **Components: *Infineum C Series***
 - Alkylates/Sulphonic Acids
 - Antifoamants/Demulsifiers/Rust, Corrosion Inhibitors
 - Antioxidants/Antiwear/Friction Modifiers
 - Detergents/Detergent Intermediates
 - Dispersants/Dispersant Intermediates, Derivatives
- **Heavy Duty Diesel Oils: *Infineum D Series***
- **Passenger Car Motor Oils: *Infineum P Series***
- **Viscosity Modifiers and Pour Point Depressants: *Infineum SV and V Series***
- **Small Engine Lubricants: *Infineum S Series***
 - 2-Stroke Engine Oils
 - 4-Stroke Engine Oils
- **Marine/Large Engine Lubricants: *Infineum M Series***
 - Aviation and Gas Engine Oils
 - Marine Engine Lubricants
 - Marine/Large Engine Lubricant Components
 - Railroad Engine Lubricants
- **Industrial Products: *Infineum N Series, Synacto, Paratac, Vistone, Infineum G Series***
 - Compressor Fluids
 - Industrial Components
 - Metalworking Fluids
 - Gear Oils
- **Power Transmission Fluids: *Infineum T Series, Infineum G Series***
 - Automatic Transmission Fluids
 - Gear Oils

Certain additives in these product families are formulated specifically for use in full synthetic applications. Contact your Infineum sales representative or call 800-654-1233 for details.



Additive Name/Designation & Use

Industrial Lubricant Additive

HiTEC® 5200 Synthetic Compressor Oil Additive

Automotive Lubricant Additives

HiTEC® 1100 Series PCMO DI

HiTEC® 5700 Series OCP VII

HiTEC® 5800 Series OCP VII

Remarks

Contains Alkylated Naphthalene



Additive Name/Designation & Use

Non-Toxic & Food Grade Lubricant Additives

G00861 Tackifier FG – Food Grade Tackifier

1505 FRIC-SHUN® FG – Friction Modifier, Detergent, TBN Source

1605 Calciplex® FG – Corrosion Inhibitor, Thickener Precursor, EP/AW

1610 Calciplex® FG (synthetic) – Corrosion Inhibitor, Thickener Precursor, EP/AW

Remarks

Industrial
Automotive & Industrial Use
Industrial
Industrial

Other Lubricant Additives

27514 5% Calcium Lin-All® – Corrosion & Rust Inhibitor

29335 22% Zinc Hex-Cem® – Rust Inhibitor (EP in the presence of sulfur and phosphorus)

802 10% Zinc Nap-All® Lube Grade – Rust Inhibitor

A00890 12% Zinc Nap-All® – Rust Inhibitor

A00887 14.5% Zinc Nap-All® E.P. R.G. – Rust Inhibitor

A00119 8% Copper Nap-All® – Anti-oxidant

G00857 E857 Tackifier LC – Light-Color Grade, Tack Additive, VI Improver

G00858 E858 Tackifier – Tack Additive, VI Improver

642 36% Lead Cem- All® – Standard Grade; EP Additive, Rust Inhibitor

310 20% Bismuth Ten-Cem® – EP Additive

315 16% Bismuth Ten-Cem® – EP Additive

320 28% Bismuth Hex-Cem® – EP Additive

322 14% Bismuth Nap-All® – EP Additive

962 15% Molybdenum Hex-Cem® – Friction Modifier, AW Agent

---- 14% Molybdenum Lin-All® – Friction Modifier, AW Agent

---- 10% Molybdenum Nap-All® – Friction Modifier, AW Agent

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Lubrication Technologies

Houston, TX 77024

www.lubritecinc.com



Product	Composition	Form/Activity	Application
Aristonate S-4000	Low Molecular Wt. Alkyl Aryl Sulfonate (MW=400)	Liquid / 60%	High performance emulsifier for oil systems
Aristonate S-4300	Medium Molecular Wt. Alkyl Aryl Sulfonate (MW=430)	Liquid / 60%	Good emulsifier. Good corrosion inhibition and reduced foam
Aristonate S-4600	High Molecular Wt. Alkyl Aryl Sulfonate (MW=460)	Liquid / 60%	Good emulsifier with enhanced corrosion inhibition and low foam profile
Aristonate S-5000	Very High Molecular Wt. Alkyl	Liquid / 60%	Good corrosion inhibition. Low foam profile and good emulsification
Aristonate L	Low Molecular Wt. Alkyl Aryl Aryl Sulfonate (MW=500)	Liquid / 60%	High performance emulsifier for soluble oils
Aristonate M	Medium Molecular Wt. Alkyl Aryl Sulfonate (MW=430)	Liquid / 60%	Offers emulsification along with corrosion protection
Aristonate H	High Molecular Wt. Alkyl Aryl Sulfonate (MW=470)	Liquid / 60%	Corrosion inhibitor with good emulsification performance
Aristonate MME-60	Monoethanolamine Sulfonate (MW=470)	Liquid / 60%	Emulsifier for industrial lubricants Particularly stable in the presence of boric acid amine corrosion inhibitors
Aristonate VH-2	Very High Molecular Wt. Alkyl	Liquid / 60%	Very strong corrosion inhibitor with good emulsification in soluble oils
Aristonate C-5000	Neutral Calcium Sulfonate	Liquid / 50%	High performance corrosion inhibitor and demulsifier
Calamide F	Oleic Diethanolamide	Liquid / 100%	Water soluble emulsifier
Calamide C	Coconut Diethanolamide	Liquid / 100%	Water soluble emulsifier



NA-LUBE AO antioxidants
NA-LUBE EP extreme pressure agents
NA SUL rust & corrosion inhibitors
K-CORR rust & corrosion inhibitors
KR-Series alkylated naphthalenes
NA-LUBE ADTC multifunctional ashless dithiocarbamate



Product	Active Composition	Description	pH Use Range
BIOBAN DB-20 Antimicrobial	2,2-dibromo-3-nitrilopropionamide (DBNPA) 20% solution	Clear amber liquid	1.5 - 5.0
BIOBAN SUMP BUDDY Antimicrobial	40% 2,2-Dibromo-3-nitrilopropionamide	Solid	7 - 9.5
BIOBAN CS-1135 Preservative	78% 4,4-dimethyloxazolidine	Liquid	7 - 11
BIOBAN CS-1246 Preservative	97.5% 7-ethyl bicyclooxazolidine	Liquid	7 - 11
BIOBAN P-1487 Antimicrobial	90% 4-(2-Nitrobutyl)-morpholine and 4,4'-(2-Ethyl-2-nitrotrimethylene) dimorpholine	Liquid	7 - 11
BIOBAN BIT 20 DPG Antimicrobial	1,2-benzisothiazolin-3-one	Liquid	2 - 12
BIOBAN BIT 10 Antimicrobial	1,2-benzisothiazolin-3-one	Liquid	2 - 12
DOWICIDE™1E Antimicrobial	99% o-phenylphenol	Solid	7 - 10
DOWICIDE 25L Antimicrobial	25% sodium o-phenylphenate	Solid	>8.5
DOWICIDE A Antimicrobial	72% sodium o-phenylphenate	Solid	>8.5
DOWICIL™ 75 Preservative	64% 1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	Powder	2 - 12
DOWICIL 150 Antimicrobial	96% cis 1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane Chloride	Powder	4 - 10
Dow Antimicrobial 7287	20% 2,2-Dibromo-3-nitrilopropionamide	Liquid	7 - 8.5
Dow Antimicrobial 8536	5% 2,2-Dibromo-3-nitrilopropionamide	Liquid	7 - 8.5
TRIS NITRO™ 50% Biocides	50% tris (hydroxymethyl) nitromethane	Liquid	7 - 11
UCONEX™315 Antimicrobial	15% glutaraldehyde	Liquid	3 - 9
UCONEX 345 Antimicrobial	45% glutaraldehyde	Liquid	3 - 9



Neutralizers: **CORRGUARD™ EXT, CORRGUARD 95 and CORRGUARD 75** Amino Alcohols; **AEPD™ 85** Dispersant
Corrosion/Staining Inhibitors: **CORRGUARD SI** Corrosion Inhibitors
Emulsifiers: **ALKATERGE™ T and ALKATERGE™** Surface Active Agents

Albemarle

ETHANOX 4702 4,4-Methylenebis (2, 6-di-tert-butylphenol)
ETHANOX 4710 4,4-Methylenebis (2, 6-di-tert-butylphenol) non-dusting form
ETHANOX 4716 Transesterfied phenolic
ETHANOX 4727J Multi-ring tert-butylphenolic, 30% active
ETHANOX 4782J Multi-ring tert-butylphenolic, 53% active
All the above are antioxidants used in synthetic gasoline engine oils (PCMO), diesel engine oils (HDDEO), hydraulic oils, turbine oils, other industrial lubricants, ATF fluids.

INVISTA

INVISTA Adi-pure® adipic acid (hexanedioic acid) S
Corfree® corrosion inhibitors used in aqueous metalworking fluids M1, M2
DDDA and its dimethyl ester as a complexing agent for lithium complex greases, S
DYTEK intermediates that are multifunctional amine, nitrile, and boron building blocks

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Lubrication Technologies
Houston, TX 77024
www.lubritecinc.com