



CHEMPOL
ADDITIVES & CHEMICAL SPECIALITY

CHEMPOL 9424M Marine Four Stroke Diesel Engine Oil Additive

Application

CHEMPOL 9424M is an additive package suitable to formulate Marine Stationary Four Stroke Diesel Engines operating on Gasoil, Marine and Fuel oil.

Recommended Dosage

CHEMPOL 9424M %wt	CHEMPOL 9012M %wt	Total %wt	TBN	Performance
3.20	-	3.20	5	To formulate System Oil (SO) for crosshead engines with oil-cooled piston. API CC
3.20	0.40	3.60	6	To formulate System Oil (SO) for crosshead engines with oil-cooled piston
3.45	0.60	4.05	7	To formulate System Oil (SO) for crosshead engines with oil-cooled piston
6.30	-	7.90	10	For normally aspirated Marine Diesel Engines. Also suitable to formulate System Oils for crosshead engines with oil cooled pistons. API CD
6.30	0.80	7.10	12	For up-rated Diesel Engines operated on Gasoil or Marine Diesel Oil. API CD.
6.30	3.95	10.25	20	For Diesel Engines operated on Residual Fuel to formulate lubricants of TBN 20
6.30	7.90	14.20	30	For Diesel Engines operated on Residual Fuel to formulate lubricants of TBN 30
6.30	11.80	18.10	40	For Diesel Engines operated on Residual Fuel to formulate lubricants of TBN 40

Typical Characteristics

Property	Method	Value
Appearance	Visual	Dark brown viscous liquid
Specific gravity @ 15.6 °C, g/ml	ASTM D 4052	1.02
Flash Point, (PMCC)°C	ASTM D 93	200
Viscosity at 100 °C, cSt	ASTM D 445	60
Total Base Number, mg KOH/g	ASTM D 2896	160
Calcium, %wt	ASTM D 5185	5.95
Zinc, %wt	ASTM D 5185	0.82
Phosphorus, %wt	ASTM D 5185	0.76
Nitrogen, %wt	ASTM D 5291	0.20

Handling/ Precaution

When handling this product a MAXIMUM temperature of 60°C should be observed for storage, unloading and blending. However, it is strongly recommended that for long-term storage the temperature should not exceed 50°C. For detailed data, please refer to the relevant MSDS.