



E-FORCE X7

MINERAL

PRODUCT DESCRIPTION:

E-FORCE X7 is a premium, high-performance mineral engine oil formulated without friction modifiers. It incorporates advanced additive technology, featuring enhanced dispersant levels and low-shear viscosity modifiers. This oil provides robust protection against corrosion, oil oxidation, and sludge formation, ensuring reliable engine performance under all operating conditions.

APPLICATION:

Recommended for wide range of turbo-charged or naturally aspirated diesel engines, generators, trucks, construction cars, passenger cars or mixed car group comprising diesel and gasoline cars. It is also recommended for automotive diesel engine of passenger cars and light commercial vehicles where the OEM recommends API CF-4 or earlier specification.

FEATURES & BENEFITS:

- Fuel saving and reduces maintenance expenses for machines and engines.
- Very long oil changing period.
- Resists oil thickening and the formation of carbon, varnish and sludge deposits.
- Good viscosity control.
- Prolonged engine life.
- Safeguards the moving parts.
- Keeps engine Clean.

PERFORMANCE MEET OR EXCEEDS:

- API CG-4/SJ
- DTFR 15B110
- ACEA A3/B4
- MAN 3275
- VOLVO VDS
- MTU Type-2
- MACK EO-L
- Allison C4

TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	E-FORCE X7					
			15W-40	15W-50	20W-50	20W-60	40	50
Grade			TBR	TBR	TBR	TBR	TBR	TBR
Kinematic Viscosity @ 104°F /40°C	D7042	cSt	TBR	TBR	TBR	TBR	TBR	TBR
Kinematic Viscosity @ 212°F /100°C	D7042	cSt	15.4	15.2	19.8	24.2	15.5	19
Viscosity Index (min)	D2270	-	135	135	120	120	95	95
Density@15°C/ 60°F	D4052	g/cm ³	TBR	TBR	TBR	TBR	TBR	TBR
Flash Point (min)	D92	°C	220	220	220	220	220	220
Pour Point (max)	D97	°C	-33	-33	-24	-24	-9	-9
TBN	D2896	mg KOH/g	9.5	9.5	9.5	9.5	9.5	9.5
CCS	D5293	m.Pa.S	<7000 (-20°C)	<7000 (-20°C)	<9500 (-15°C)	<9500 (-15°C)	-	-

DISCLAIMER: The test data presented above is indicative and not a strict specification, as it may vary within acceptable production tolerances. Internal reserves the right to update or modify this test data. For the most accurate and current information, please refer to the latest version of this Technical Data Sheet (TDS).

HEALTH & SAFETY, ENVIRONMENT:

Continuous or repeated exposure to oil may lead to skin problems. Avoid contact with the oil. In case of contact, wash thoroughly with soap and water. Do not dispose of used oil in drains or the environment. Dispose of it at an authorized used oil collection point. For additional safety information, please refer to the MSDS available on our website at www.internal.net.

PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.