SAE 90

Gear Oil

TECHNICAL DATA SHEET

Product Description

ALES GEAR OIL SAE 90 is a high-performance, heavy-duty gear lubricant formulated from premium base oils and an advanced additive system. This lubricant is designed for heavy-duty automotive transmissions, axles, and differentials. Furthermore, it is engineered to operate efficiently in transmissions requiring protection against wear and scoring, while also providing a high level of oil film protection.

Features & Benefits

- Good thermal & oxidation stability protects against deposit formation and oil thickening, thus maintains the life and performance of lubricant and transmission.
- Enhanced anti-wear properties and outstanding film strength provides exceptional equipment protection, that not only results in fewer breakdowns but also helps improve transmission efficiency.
- Excellent rust and corrosion protection for longer component life.
- Compatibility with seals and gaskets, leads to minimize oil leakage and reduced contamination.

Specifications

ALES GEAR OIL SAE 90 meets or exceeds following International and Builder specifications:

- API GL-4
- MIL-L-2105 (U.S Military Specification)

Application

ALES GEAR OIL SAE 90 is suitable for use in following:

- Suitable for Heavy duty manual transmissions, axles and final drives requiring API GL-4 level performance.
- Applications like Off-highway industries including construction, mining, quarrying, and agriculture.

Typical Characteristics

ALES GEAR OIL SAE 90	Test Method	Units	90	140	80W90	85W90	85W140
Density @ 15 ^{0}C	ASTM D 4052	gm/cc	0.890	0.910	0.888	0.890	0.908
Viscosity @ 40 ^{0}C	ASTM D 445	cSt	145	447	146	190	356
Viscosity @ 100 ^{0}C	ASTM D 445	cSt	14.3	30.0	14.7	17.4	25.6
Viscosity Index	ASTM D 2270	-	96	95	100	97	95
Pour Point	ASTM D 97	℃	-12	-9	-24	-24	-15
Flash Point (COC)	ASTM D 92	℃	240	260	230	236	248
Copper Strip Corrosion	ASTM D 130	-	1B	1B	1B	1B	1B
Foam Seq I,II,III	ASTM D 892	ml/ml	10/0	20/0	10/0	10/0	20/0
Phosphorus	ASTM D 4951	%wt	0.026	0.026	0.026	0.026	0.026

The above figures are typical of blends with normal production tolerance and do not constitute a specification.

For further information, please contact: www.alesoil.com

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