

SRS Violin ML 4 plus



EP Multipurpose Gear Oils

June 2017

Characteristics

SRS Violin ML 4 plus gear oils are blends of selected base oils with load carrying additives and oxidation inhibitors. Multigrade characteristics of SRS Violin ML 4 plus ensure good low temperature fluidity and high wear protection at high temperature.

Application

SRS Violin ML 4 plus are EP multipurpose gear oils which can be used for all gear boxes (with and without synchronization, transfer gearboxes, various steering gears and normal loaded drive axles – as far as API GL 5 hypoid gear oils are not mandatory required. SRS Violin ML 4 plus gear oils are suitable according to MAN 341 Z2 for extended drain intervals up to 160.000 km and can also be used in gearboxes, where transmission oils according to MAN 341 type E2 are required.

Performance / Specifications

- SAE Grade 80W, 80W-90 and 85W-90
- API GL-4

Approvals / Recommendations

- MAN 341 Type Z2
- ZF Approval Number ZF001914 / ZF001915 / ZF001916
ZF TE-ML 02B, 17A

SRS Violin ML 4 plus multipurpose gear oils are products of the H&R ChemPharm GmbH.

Typical Data	Test Method	SRS Violin ML 4 plus		
		SAE 80W	SAE 80W-90	SAE 90
SAE Grade	SAE J 306	80W-85	80W-90	85W-90
Density at 15°C	g/cm ³ DIN 51 757	0.881	0.888	0.899
Dyn. Viscosity at - 26°C	mPa s DIN 51 398	< 150.000	130.000	-
Dyn. Viscosity at - 12°C	mPa s DIN 51 398	-	-	< 150.000
Kin. Viscosity at 40°C	mm ² /s DIN EN ISO 3104	68,0	138	165
Kin. Viscosity at 100°C	mm ² /s DIN EN ISO 3104	8.76	14.2	15.5
Viscosity Index (VI)	DIN ISO 2909	101	100	95
Flash Point COC	°C DIN ISO 2592	224	254	228
Pour Point	°C DIN ISO 3016	-30	-30	-21

The above values may vary within the commercial limits.

Made in Germany