



GERMAN ADLER GMBH

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## PRODUCT INFORMATION **GERMAN ADLER 4T-M 20W-50**

High-performance engine oil, made from selected mineral base oils. Specially developed for 4-stroke motor bikes equipped with joined oil circuit for engine and transmission with wet clutches.

### Description/Application

GERMAN ADLER 4T-M 20W-50 is made from selected base oil of viscosity grade SAE 20W-50. This unique composition of adapted viscosity in combination with modern additive package provides its outstanding performance level.

### Application

GERMAN ADLER 4T-M 20W-50 has been specially designed for use in 4-stroke motor bikes with joined oil circuit for engine, wet clutch and transmission. It offers outstanding thermal resistance and provides stable lubricating film even under very high stress. Thereby it fulfills the stringent friction requirements of JASO MA2 for perfect clutch performance.

In compliance to EEC regulations the quality of GERMAN ADLER 4T-M 20W-50 is equivalent according to the following standards / specifications:

- ACEA - A3-04
- API - SN
- JASO MA2

### Advantages/Benefits

- superior wear and corrosion protection of engine and transmission
- stable lubricating film even under very hot oil temperatures and/or very high stress
- excellent shear stability for real "stay in gear"
- superior clutch performance – fulfills the tightened requirements for JASO MA2
- very good oxidation resistance due to selected base oil and special additive technology
- reliably prevents from resin formation, vanishing and ring sticking of cylinders and pistons
- miscible and compatible with conventional, also as synthetic branded engine oils. To make use of the full performance benefit of GERMAN ADLER 4T-M 20W-50 a complete oil change is recommended

### Typical characteristics:

	Unit	Value	Method
<b>Density at 15°C</b>	kg/m <sup>3</sup>	891	DIN 51 757
<b>Viscosity at 40°C</b>	mm <sup>2</sup> /s	153	DIN 51 562
<b>Viscosity at 100°C</b>	mm <sup>2</sup> /s	18,3	DIN 51 562
<b>Viscosity index</b>		133	DIN ISO 2909
<b>Dynamic viscosity at -15°C</b>	mPa.s	6980	DIN 51 377
<b>Pour point</b>	°C	-27	DIN ISO 3016
<b>Flash point</b>	°C	228	DIN ISO 2592
<b>TBN</b>	mg KOH/g	10,5	DIN ISO 3771

The above data are true and correct to the best of our knowledge and belief and reflect the current state of knowledge and our development effort. All rights to changes reserved! The characteristic data indicated are subject to the repeatability and reproducibility of the given test methods.