



# Advanced Defender

## SAE 10W-40

### High Performance Low Friction Motor Oil for Passenger Cars

#### Description and Properties

**Swd Rheinol Advanced Defender 10W-40** as a low friction motor oil is recommended for use in passenger cars gasoline and diesel engines. It is produced by blending a special solvent base stock with polymers and additives of most progressive technology.

**Swd Rheinol Advanced Defender 10W-40** meets severe European ACEA performance requirements, reassuring the user of all-round protection throughout the vehicles life.

**Swd Rheinol Advanced Defender 10W-40** is characterised by a very good cold start performance and low evaporation loss, which both make a contribution to reduced consumption of fuel and oil. Because of its extended viscosity range the annual turnover is possible. Excellent thermal and oxidative stability, combined with high dispersancy control sludge build-up and deposits and keep engine clean, which allows development of full engine performance. The optimal wear protection cares for long engine life.

#### Specifications / Recommendations

ACEA A3 / B4

API SN / CF

#### Typical Properties

Advanced Defender SAE 10W-40	unit	value	method
Density at 15°C	kg/m <sup>3</sup>	862	DIN 51 757
Viscosity at 40°C	mm <sup>2</sup> /s	105	DIN 51 562
Viscosity at 100°C	mm <sup>2</sup> /s	15,9	DIN 51 562
Viscosity Index		162	DIN ISO 2909
CCS at -25°C	mPa.s	6450	DIN 51 377
Pourpoint	°C	-42	DIN ISO 3016
Flashpoint	°C	220	DIN ISO 2592
TBN	mg KOH/g	12,7	DIN ISO 3771

**Article-Number : 31144**

Specification variations in these characteristics may occur.  
The instructions of manufacturer must be regarded.  
Further informations to be available by MSDS.

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