



# swd Promotol FF

## SAE 10W, 20W20, 30, 40 & 50

### HD Monograde Engine Oil

#### Discription

swd Promotol FF monograde engine oils are produced from mineral base oils and selected additives, which - because of very good detergency and dispersancy - provide excellent motor cleanliness. The corrosion- and wear protection correspond to the high performance level of this product.

#### Application

swd Promotol FF is used in steady stade engines and in locomotives. Furthermore it may be used in gears, speed-torque converters and in hydraulic units, if such motor oil is recommended by the constructor.

#### Qualification

- API CF, CF-4 / SF

#### Typical Properties

swd Promotol FF	unit	value					method
		10W	20W20	30	40	50	
SAE - Classification							
Density at 15°C	kg/m <sup>3</sup>	868	875	876	887	890	DIN 51 757
Kinematic viscosity at 100°C	mm <sup>2</sup> /s	5,6	7,8	10,9	14,1	17,8	DIN 51 562
Dynamic viscosity at -25°C	mPa.s	4650	--	--	--	--	ASTM D5293
Dynamic viscosity at -15°C	mPa.s	--	1880	--	--	--	ASTM D5293
Pourpoint	°C	-36	-30	-30	-27	-30	DIN ISO 3016
Flash point	°C	208	212	218	232	234	DIN ISO 2592
TBN	mg KOH/g	4,5	4,5	4,5	4,5	4,5	DIN ISO 3771
<b>Article-Number :</b>		<b>31518</b>	<b>31528</b>	<b>31538</b>	<b>31548</b>	<b>31558</b>	

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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