

Product Code:

# 7507

# DEFENDER

## Semi-synthetic engine oil

Meets the requirements:

SAE 10W-40, API SN, ACEA A3/B4,  
MB 229.1, VW-Norm 501 01/505 00,  
MB 229.1

MANNOL Defender is a multipurpose multigrade semi-synthetic engine oil with hydro synthetic base for modern gasoline and diesel engines with and without turbocharge. It is produced with the use of unique StahlSynt wear-out reducing technology. It provides high degree of protection for new cars as well as for cars with big mileage. Prolongs periods between oil change. MANNOL Defender provides safe engine combustion at high loads and frequent temperature changes.

Product Characteristics:

Test	Method	Unit	Result
Density at 15°C	D 1298	kg/m <sup>3</sup>	870
Viscosity at 40°C	D 445	CSt	93,39
Viscosity at 100°C	D 445	CSt	13,81
Viscosity at -25°C	D 5293	CP	6624
Viscosity index	D 2270		151
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-40
TBN	D 2896	gKOG/kg	10,03

Volume:

1L	MN7507-1	20L	MN7507-20
4L	MN7507-4	60L	MN7507-60
5L	MN7507-5	208L	MN7507-DR
10L	MN7507-10	1000L	MN7507-IBC



[www.mannol.de](http://www.mannol.de)

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