

## VALCO E-PROTECT 2.7

### Synthetic engine oil 5W30

Top of the range synthetic oil for passenger car engines, perfectly suited to engines in current fleet (gasoline, Diesel, Diesel with direct injection). Formula specially developed to prevent damage caused by LSPI (Low Speed Pre-Ignition), limit deposits and promote fuel economy. Its composition also ensures longevity of exhaust gas aftertreatment systems ("Low-SAPS" technology).

VALCO E-PROTECT 2.7 is particularly suitable for Volkswagen vehicles for which VW 504.00 / 507.00 standard is required. It will also be suitable for BMW vehicles (BMW LL-04 specification) or Mercedes (MB229.31/51/52 specification) but also when the performance level ACEA C3 or API SP is recommended.

### Specifications

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| <ul style="list-style-type: none"> <li>✓ ACEA C3</li> <li>✓ API SP</li> <li>✓ BMW LL-04</li> <li>✓ MB 229.31</li> <li>✓ MB 229.51</li> </ul> | <ul style="list-style-type: none"> <li>✓ MB 229.52</li> <li>✓ Porsche C30</li> <li>✓ Opel / Vauxhall OV0401547 - G30</li> <li>✓ Opel / Vauxhall OV0401547 - D30</li> </ul> |
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**OEM Approval : ► VW 504.00 / 507.00**

### Physicochemical Characteristics

Characteristics	Method	Unit	Typical value	Min.	Max.
Viscosity grade	SAE J300	-	5W30	-	-
Kinematic viscosity @ 100°C	ASTM D 7042	cSt	12.1	11.8	12.5
Kinematic viscosity @ 40°C	ASTM D 7042	cSt	69	-	-
Viscosity index	ASTM D 2270	-	172	-	-
CCS viscosity @ -30°C	ASTM D 5293	mPa.s	4600	-	6600
HTHS viscosity @ 150°C	ASTM D 4683	mPa.s	3.5	3.5	-
MRV viscosity @ -35°C	ASTM D 4684	mPa.s	23000	-	60000
Density @ 20°C	ASTM D 7042	-	0.847	-	-
Pour point	ASTM D 97	°C	-44	-	-36
T.B.N.	ASTM D 2896	Mg KOH/g	8.3	7.7	8.7
Sulfated ash	ASTM D 874	% mass	0.78	-	0.80
Spectrometric analysis	ICP	ppm			
Phosphorous			760	700	800
Zinc			830	760	900
Calcium			1080	990	1180
Magnesium			470	430	520
Boron			170	-	-
Sulfur	2000	-	3000		
NOACK volatility	ASTM D 5800	% mass	9.4	-	10.0
Colour	ASTM D 1500	-	3.5	-	4.0

### Security

See Safety Data Sheet