

## VALCO E-Protect 5.9

### Synthetic engine oil 0W20

Very high-end synthetic engine oil for passenger car engines, perfectly suitable to current engines (petrol, diesel, direct injection diesel). It provide protection against wear, longevity of exhaust gas aftertreatment systems ("Low-SAPS" technology) and fuel economy. It also provide excellent protection against potential LSPI (Low Speed Pre-Ignition) in direct injection engines.

VALCO E-Protect 5.9 is particularly suitable for Volkswagen vehicles for which VW 508.00 / 509.00 standard is required.

### Specifications

- ✓ ACEA C5
- ✓ API SN PLUS
- ✓ VW 508.00 / 509.00
- ✓ Porsche C20

### Physicochemical Characteristics

Characteristics	Method	Unit	Typical value	Min.	Max.
Viscosity grade	SAE J300	-	0W20	-	-
Kinematic viscosity @ 100°C	ASTM D 7042	cSt	8.1	7.8	9.3
Kinematic viscosity @ 40°C	ASTM D 7042	cSt	42	-	-
Viscosity index	ASTM D 2270	-	174	-	-
CCS viscosity @ -35°C	ASTM D 5293	mPa.s	5500	-	6200
HTHS viscosity @ 150°C	ASTM D 4683	mPa.s	2.7	2.6	2.9
MRV viscosity @ -40°C	ASTM D 4684	mPa.s	21000	-	60000
Density @ 20°C	ASTM D 7042	-	0.838	-	-
Pour point	ASTM D 97	°C	-50	-	-35
T.B.N.	ASTM D 2896	Mg KOH/g	9.6	8.7	9.8
Sulfated ash	ASTM D 874	% mass	0.78	-	0.80
Spectrometric analysis	ICP	ppm			
Phosphorous			800	700	800
Zinc			880	800	950
Calcium			1300	1150	1400
Magnesium			460	400	500
Sulfur	1800	-	3000		
NOACK volatility	ASTM D 5800	% mass	10.6	-	13.0
Colour	Visual	-	Blue-Green	-	-

### Security

See Safety Data Sheet