

VALCO E-PROTECT 3.48

Synthetic engine oil 5W-20

Top of the range synthetic engine oil perfectly suited to gasoline engines providing protection against wear, longevity of exhaust gas aftertreatment systems ("Low-SAPS" technology) and fuel economy.

VALCO E-PROTECT 3.48 is specially dedicated for Ford Eco-Boost gasoline engines for which WSS-M2C948-B standard is recommended. It can also be used when ACEA C5 or API SP performance level is required.

Specifications

- ✓ ACEA C5
- ✓ API SP
- ✓ Ford WSS-M2C948-B

Physicochemical Characteristics

Characteristics	Method	Unit	Typical value	Min.	Max.
Viscosity grade	SAE J300	-	5W-20	-	-
Kinematic viscosity @ 100°C	ASTM D 7042	cSt	8.0	7.8	9.3
Kinematic viscosity @ 40°C	ASTM D 7042	cSt	44	-	-
Viscosity index	ASTM D 2270	-	155	-	-
CCS viscosity @ -30°C	ASTM D 5293	mPa.s	4500	-	6600
HTHS viscosity @ 150°C	ASTM D 4683	mPa.s	2.7	2.6	2.9
MRV viscosity @ -35°C	ASTM D 4684	mPa.s	12400	-	60000
Density @ 20°C	ASTM D 7042	-	0.847	-	-
Pour point	ASTM D 97	°C	-45	-	-
T.B.N.	ASTM D 2896	Mg KOH/g	8.4	7.8	8.6
Sulfated ash	ASTM D 874	% mass	0.79	-	0.80
Spectrometric analysis	ICP	ppm			
Phosphorus			750	700	800
Zinc			850	-	-
Calcium			1100	-	-
Magnesium			470	-	-
Boron			180	-	-
Sulfur			2000	-	3000
NOACK volatility	ASTM D 5800	% mass	9.9	-	13.0
Colour	ASTM D 1500	-	3.5	-	4.5

Security

See Safety Data Sheet