

VALCO C-PROTECT 3.0
Engine oil 20W-50

Engine oil for passenger cars and light commercial vehicles.

VALCO C-PROTECT 3.0 will ensure internal cleanliness of engine as well as protection against wear.

This oil is recommended when API SF / CF performance level is required.

Specifications

✓ API SF / CF

Physicochemical Characteristics

Characteristics	Method	Unit	Typical value	Min.	Max.
Viscosity grade	SAE J300	-	20W-50	-	-
Kinematic viscosity @ 100°C	ASTM D 7042	cSt	19.6	16.3	21.9
Kinematic viscosity @ 40°C	ASTM D 7042	cSt	172	-	-
Viscosity index	ASTM D 2270	-	131	-	-
CCS viscosity @ -15°C	ASTM D 5293	mPa.s	7000	-	9500
HTHS viscosity @ 150°C	ASTM D 4683	mPa.s	5.0	3.7	-
MRV viscosity @ -20°C	ASTM D 4684	mPa.s	49000	-	60000
Density @ 20°C	ASTM D 7042	-	0.880	-	-
Pour point	ASTM D 97	°C	-34	-	-
Flash point	ASTM D 92	°C	221	-	-
T.B.N.	ASTM D 2896	mg KOH/g	4.3	3.9	5.1
Spectrometric analysis	ICP	ppm			
Phosphorus			600	-	-
Zinc			620	-	-
Calcium			1300	-	-
Molybdenum			60	-	-
NOACK volatility	ASTM D 5800	% mass	4.2	-	13.0
Colour	ASTM D 1500	-	3.0	-	5.0

Security

See Safety Data Sheet