# VALCO E-PROTECT 4.2

**Synthetic engine oil 0W-30**

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

VALCO E-PROTECT 4.2 is specially dedicated to PSA vehicles, particularly those fitted with a "Blue HDi" engine, for which the B71 2312 standard is recommended. It is also ideal when the ACEA C2 level is required.

## Specifications

- ✓ ACEA C2
- ✓ API SP
- ✓ PSA B71 2302
- ✓ Fiat 9.55535-GS1 (meets requirement)
- ✓ Fiat 9.55535-DS1 (meets requirement)

**OEM Approval : ► PSA B71 2312**

## Physicochemical Characteristics

| Characteristics | Method | Unit | Typical value | Min. | Max. |
|---|---|---|---|---|---|
| Viscosity grade | SAE J300 | - | 0W-30 | - | - |
| Kinematic viscosity @ 100°C | ASTM D 7042 | cSt | 9.7 | 9.6 | 12.5 |
| Kinematic viscosity @ 40°C | ASTM D 7042 | cSt | 51 | - | - |
| Viscosity index | ASTM D 2270 | - | 177 | - | - |
| CCS viscosity @ -35°C | ASTM D 5293 | mPa.s | 5850 | - | 6200 |
| HTHS viscosity @ 150°C | ASTM D 4683 | mPa.s | 2.9 | 2.9 | - |
| MRV viscosity @ -40°C | ASTM D 4684 | mPa.s | 22300 | - | 60000 |
| Density @ 20°C | ASTM D 7042 | - | 0.844 | - | - |
| Pour point | ASTM D 97 | °C | -48 | - | -35 |
| Flash point | ASTM D 92 | °C | 230 | 210 | - |
| T.B.N. | ASTM D 2896 | mg KOH/g | 10.7 | 10.1 | 11.0 |
| Sulfated ash | ASTM D 874 | % mass | 0.78 | - | 0.80 |
| Spectrometric analysis | ICP | ppm | | | |
| Phosphorus | | | 760 | 700 | 900 |
| Zinc | | | 850 | - | - |
| Calcium | | | 1100 | - | - |
| Magnesium | | | 470 | - | - |
| Sulfur | | | 2450 | - | 3000 |
| NOACK volatility | ASTM D 5800 | % mass | 11.3 | - | 13.0 |
| Colour | ASTM D 1500 | - | 3.5 | - | 4.5 |

## Security

See Safety Data Sheet