

## VALCO C-PROTECT 5.3

### Engine oil 10W40

Semi-synthetic passenger car engine oil adapted to petrol, Diesel, high pressure direct injection Diesel.

### Specifications

- ✓ ACEA A3 / B4
- ✓ API SN / CF
- ✓ VW 502.00 / 505.00
- ✓ MB 229.3
- ✓ Renault RN 0700 / RN0710
- ✓ PSA B71 2300
- ✓ JASO MA2

### Physicochemical Characteristics

| Characteristics             | Method        | Units    | Typical value | Mini | Maxi  |
|-----------------------------|---------------|----------|---------------|------|-------|
| Viscosity grade             | SAE-J         | -        | 10W40         | -    | -     |
| Kinematic viscosity @ 100°C | ASTM D 7279   | cSt      | 14.5          | 14.0 | 16.3  |
| Kinematic viscosity @ 40°C  | ASTM D 7279   | cSt      | 98            | -    | -     |
| Viscosity index             | ASTM D 2270   | -        | 145           | -    | -     |
| CCS viscosity @ -25°C       | ASTM D 5293   | mPa.s    | 6600          | -    | 7000  |
| HTHS viscosity @ 150°C      | CEC-L-36-A-97 | mPa.s    | 3.9           | 3.5  | -     |
| MRV viscosity @ -30°C       | ASTM D4684    | mPa.s    | -             | -    | 60000 |
| Density                     | D 20/4        | -        | 0.862         | -    | -     |
| Pour point                  | ASTM D 5950   | °C       | -39           | -    | -     |
| T.B.N.                      | ASTM D 2896   | Mg KOH/g | 10.2          | 10.0 | 11.5  |
| Sulfated ash                | ISO/FDIS 3987 | % mass   | 1.16          | 1.0  | 1.5   |
| Spectrometric analysis      | ICP           | ppm      |               |      |       |
| Phosphorus                  |               |          | 1000          | 910  | 1100  |
| Zinc                        |               |          | 1100          | 1000 | 1200  |
| Calcium                     |               |          | 3100          | 2800 | 3380  |
| Magnesium                   |               |          | -             |      |       |
| NOACK volatility            | ASTM D 5800   | % mass   | 9             | -    | 12    |
| Color                       | ASTM D1500    | -        | 4.0           | -    | 4.5   |

### Security

See Safety Data Sheet