



*Lubricants - Engine Oil - Passenger Car Motor Oils*

Version: 045/03g

## Valvoline™ All-Climate Motor Oil C2/C3 SAE 5W-30

High quality full synthetic motor oil. Formulated for year round performance. Proven and trusted technology for a broad range of diesel, petrol and LPG engines.

| Performance levels |
|--------------------|
| ACEA C2, C3        |
| API: SN            |

### Applications

Suitable for a wide range of engines.

Specially designed for use in light duty vehicles fitted with after-treatment systems.

Suitable for engines with Diesel Particle Filter (DPF), Gasoline Catalytic Converter systems (GCC) or Three Way Catalytic Converter (TWC) where ACEA C2 or C3 specification is prescribed, such as Toyota, Hyundai, Kia, Nissan, etc.

### Features & Benefits

#### Year round performance

All-Climate engine oils are formulated for year round performance. Meeting industry performance levels.

#### Broad vehicle application

High quality formulation suitable for a wide range of vehicles.

#### Cold start performance

Instant oil flow at low temperatures provides easy cold starts and optimal lubrication within seconds after ignition.

#### Wear protection

Strong oil film provides protection against wear under all operating conditions.

#### Engine cleanliness

Keeps engine clean by minimizing deposits.

#### Deposit control

Prevents forming of sludge and harmful deposits inside the engine.

#### Long Drain Interval

Long lasting formula for long drain applications.

# PRODUCT INFORMATION



## Keeping the world moving since 1866™

Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals; specialty products; greases, and cooling system products.

For more information on Valvoline products, programs and services please visit [www.valvolineeurope.com](http://www.valvolineeurope.com)

## Typical properties

Typical property characteristics are based on current production. Whilst future production will conform to Valvoline specifications, variations in these characteristics may occur.

| <b>All-Climate Motor Oil C2/C3</b>                         |       |
|--|-------|
| <b>SAE Viscosity Grade</b>                                 | 5W-30 |
| <b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b><br>ASTM D-445 | 12    |
| <b>Viscosity, mm<sup>2</sup>/s @ 40 °C.</b><br>ASTM D-445  | 73,4  |
| <b>Viscosity Index</b><br>ASTM D-2270                      | 160   |
| <b>Viscosity, mPa.s -30°C.</b><br>ASTM D-5293              | <6600 |
| <b>TBN, mg KOH/g</b><br>ASTM D-2896                        | 7,9   |
| <b>Pour Point, °C</b><br>ASTM D-5949                       | -42   |
| <b>Specific Gravity @ 15.6°C.</b><br>ASTM D-4052           | 0,855 |
| <b>Flash Point, COC, °C.</b><br>ASTM D-92                  | 223   |

**This information only applies to products manufactured in the following location(s):  
Europe**

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## Health & Safety

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet <http://msds.valvoline.com>

## Protect the environment

Take used oil to an authorized collection point. Comply with local regulations. Do not discharge into drains, soil or water.

## Storage

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

Replaces – 045/02g