



# AeroShell Turbine Oil 3

AeroShell Turbine Oil 3 is a 3 mm<sup>2</sup>/s mineral turbine oil blended from mineral base stocks to which an anti-corrosion additive has been added.

## DESIGNED TO MEET CHALLENGES

### Main Applications

- AeroShell Turbine Oil 3 was developed for early pure jet engines and is still approved for some versions of these engines plus the Turbomeca Astazou, Artouste, Turmo, Bastan and Marbore engines.
- AeroShell Turbine Oil 3 is widely used for inhibiting fuel systems and fuel system components during storage.
- AeroShell Turbine Oil 3 is an analogue to the Russian Grade MK-8 and can therefore be used in engines which require the use of MK-8. It is also used as the mineral turbine oil component in the mixture of mineral turbine oil and piston engine oil used in Russian turbo-prop engines.

### Specifications, Approvals & Recommendations

- Approved DEF STAN 91-99 (British)
- Equivalent to AIR 3515/B (French)
- Analogue to MK-8 (Russian)
- NATO Code O-135
- Joint Service Designation OM-11

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

### Typical Physical Characteristics

| Properties                             |                           | DEF STAN 91-99 | Typical   |
|--|---------------------------|----------------|-----------|
| Oil type                               |                           | Mineral        | Mineral   |
| Density                                | @15°C kg/l                | -              | 0.875     |
| Kinematic viscosity                    | @40°C mm <sup>2</sup> /s  | 12.0 min       | 12.28     |
| Kinematic viscosity                    | @-25°C mm <sup>2</sup> /s | 1250 max       | 1112      |
| Pour Point                             | °C                        | -45 max        | Below -45 |
| Flash Point PMCC                       | °C                        | 144 min        | 146       |
| Total Acidity                          | mgKOH/g                   | 0.30 max       | 0.15      |
| Strong acid number                     | mgKOH/g                   | Nil            | Nil       |
| Copper corrosion 3 hrs                 | @100°C                    | 1 max          | Passes    |
| Saponification matter                  | mgKOH/g                   | 1 max          | 0.25      |
| Ash                                    | % m/m                     | 0.01 max       | 0.001     |
| Aromatic content                       | %                         | 10 max         | 6.0       |
| Oxidation - total acid number increase | mgKOH/g                   | 0.7 max        | 0.24      |
| Oxidation - asphaltenes                | % m/m                     | 0.35 max       | 0.09      |

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

### Health, Safety & Environment

#### • Health and Safety

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

- **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

#### Additional Information

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.