



# Shell Advance Racing M 30

## Castor-based Racing Oil

Shell Advance Racing M is a castor-based racing oil with synthetic components. It has been developed especially for 2-stroke karts. It is also recommended for 4-stroke speedway motorcycles and other engines burning alcohol. Shell Advance Racing M is a race proven technology (kart sport world championship).

### DESIGNED TO MEET CHALLENGES

#### Performance, Features & Benefits

- **Ultimate engine protection**

Exceptional protection in the most severe racing conditions even at the highest revving condition of 2-stroke karts. The unique formulation based on castor oil and synthetic components specifically tested for 2-stroke racing engines prevents scuffing, ring sticking and deposit formation making the engine reliable while maximising power output.

- **Improved acceleration and power output**

The ease of burning allows fast adaptation to new driver requirements improving acceleration performance and power output. Also the very low ash content minimises spark plug fouling keeping their efficiency high.

#### Main Applications



- 2-stroke karts with very high revving 2-stroke racing engines
- 4-stroke speedway motorcycles
- Racing engines burning alcohol mixture

#### Typical Physical Characteristics

Properties			Method	Shell Advance Racing M 30
SAE Viscosity grade				30
Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	ASTM D445	108
Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	ASTM D445	12
Viscosity Index			ISO 2909	100
Density	@15°C	kg/m <sup>3</sup>	ASTM D4052	893
Flash Point (COC)			ISO 2592	272
Pour Point			ISO 3016	-9

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

Shell Advance Racing M is not ideally suited for "on road use". Advance Ultra 2 or VSX 2 or Scooter Plus 2 or Scooter 2 are the preferred grades for "on-road" 2-stroke engines.

Shell Advance Racing M is non-diluted therefore it is suggested to use it in premixing system with a mixing ratio of 1:16 for karts and 1:25 for motorcycles unless otherwise recommended by engine manufacturer.

Shell Advance Racing M should not be used in outboard engines. The appropriate Shell Nautilus Oil is recommended for this application.

#### Specifications, Approvals & Recommendations

- Shell Advance Racing M is approved by FIM/FIA-CIK and it has been kart sport world championship. It meets SAE J 300 30 viscosity grade requirements.

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

#### Compatibility & Miscibility

- **Compatibility**

Castor-based oils like Shell Advance Racing M must never be mixed with conventional mineral oils.

## Health, Safety & Environment

- **Health and Safety**

Shell Advance Racing M is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate 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.