



## Gulf Formula C5-FE

### Fully Synthetic Fuel Economy Passenger Car Motor Oil

#### Product Description

**Gulf Formula C5-FE** is the most advanced superior performance, fuel economy passenger car motor oil developed to provide outstanding protection against wear even with low viscosity. It is formulated from finest quality synthetic base stocks and latest additive technology meeting mid SAPS (Sulphated Ash, Phosphorous & Sulphur) requirements. It is designed to provide the protection against Low Speed Pre-Ignition (LSPI) and timing chain wear issues generally observed in latest turbocharged Gasoline Direct Injection (GDI) engines. This low friction engine oil is specially designed for use in Mercedes passenger cars and vans requiring latest MB 229.71 specification oils.

#### Features & Benefits

- Specially developed formulation with improved frictional properties provides excellent fuel economy benefits and also protects emission control devices DPF and TWC
- The special formula helps in protecting the engines from Low Speed Pre-Ignition (LSPI) and Timing chain wear issues observed in latest turbocharged Gasoline Direct Injection (GDI) engines
- Excellent antiwear technology provides superior wear protection
- Outstanding thermo-oxidative stability decelerates oil degradation and thus facilitates extended oil change intervals
- Outstanding low temperature fluidity aids quick cold start and provides wear protection at start-up

#### Applications

- Suitable for use in automotive gasoline engines where the manufacturer recommends an oil meeting specification MB 229.71 and SAE 0W-20 grade
- Recommended for latest modern cars, sports cars and luxury vehicles requiring lower viscosity oils where ACEA C6 & ACEA C5 oils are recommended

Note: These oils may be unsuitable for use in some engines requiring high viscosity grade oils (consult owner manual/handbook)

#### Specifications, Approvals & Typical Properties

Meets the following Specifications	0W-20	
ACEA C6, ACEA C5	X	
MB 229.71	X	
Has the following Approvals		
API SP, API SN Plus	X	
Typical Properties		
Test Parameters	ASTM Method	Typical Values
Viscosity @ 100 °C, cSt	D 445	8.0
Viscosity Index	D 2270	186
Flash Point, °C	D 92	224
Pour Point, °C	D 97	-42
TBN, mg KOH/g	D 2896	9.5
Density @ 15°C, Kg/l	D 1298	0.844
Sulphated Ash, % wt	D 874	0.77
Sulfur, % wt	D 129 (ICP)	0.19
Phosphorus, % wt	D 4047 (ICP)	0.075

November 2022

Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

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