



## ENGINE OILS

# ADDINOL ECONOMIC 020

### PRODUCT DESCRIPTION

ADDINOL Economic 020 is a fuel-efficient high-performance engine oil in SAE-grade 0W-20 with decreased HTHS viscosity.

The ideal combination of fully synthetic base oils and innovative additives guarantees an outstanding performance and ensures an excellent cold start behaviour at low temperatures.

### APPLICATION

- Specially designed for the latest turbocharged gasoline direct injection engines to protect against damages due to low speed pre-ignition (LSPi)
- Excellently suited for use in electric hybrid vehicles
- In particular for the usage in Asian and American vehicles with fuel injection engines, charged and non-charged turbo engines as well as catalytic converters
- Especially recommended for cold climates

### SPECIFICATIONS

Meets and exceeds the international specifications of:

- API SP with Resource Conserving
- ILSAC GF-6

Complies with the requirements of:

- Ford WSS-M2C-945A

downwards compatible with:

- Ford WSS-M2C-930A
- Ford WSS-M2C-925A

- Chrysler MS 6395
- GM 6094M

### DELIVERY

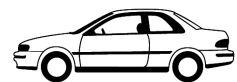
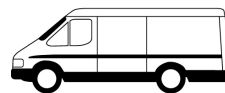
Delivery preferable in small packaging.

### CHARACTERISTICS

- Outstanding cold start behaviour
- Fuel-efficient characteristics
- Excellent wear protection
- Outstanding engine cleanliness
- Best ageing stability

### ADVANTAGES AND BENEFITS

- Minimal cold start wear due to the outstanding flow-ability at low temperatures
- Excellent fuel saving potential
- Maximum protection and long lifetime of the engine
- Very good cleaning effect guarantees a long lifetime of all components to be lubricated
- Longest oil change intervals also at applications of flexible service systems





## ADDINOL ECONOMIC 020

### SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test conditions / unit		Economic 020	Method acc. to
Appearance			clear, free from contaminations	visual
SAE-grade	J 300		0W-20	ASTM
API			SP with Resource Conserving	Laboratory and engine tests acc. to ASTM and CEC
Density	at 15°C	kg/m <sup>3</sup>	850	DIN 51757
Viscosity	at 100°C	mm <sup>2</sup> /s	8.3	ASTM D 7042
Viscosity index			165	DIN ISO 2909
HTHS-Viscosity	at 150°C	mPa*s	≥ 2.6	ASTM D 4683
Base number		mg KOH / g	8.9	ASTM D 2896
Flash point	COC	°C	240	DIN EN ISO 2592
Pour point		°C	-40	ASTM D 7346
Pumpability		°C	down to -40	ASTM D 4684

### ADDINOL - The Experts for High-Performance Lubricants

We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our know-how and the individual customer advisory service of our competent experts. Our company has world wide activities. ADDINOL high-performance lubricants are distributed by more than 90 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.