

NORDIC VORN FE SAE 0W-12

(BMW LONGLIFE-22 FE++)

Product Description

NORDIC VORN 0W-12 is a next-generation, ultra-low viscosity full synthetic passenger car motor oil specifically engineered to exceed the latest and most stringent BMW Longlife-22 FE++ specification. Formulated with premium synthetic base stocks and an advanced low-SAPS additive technology, it delivers superior thermal stability, ultimate engine protection, and maximum reduction of CO2 emissions.

Applications

- Specifically formulated for modern BMW Group gasoline engines from model year 2022 onwards requiring LL-22 FE++ specification.
- Suitable for high-efficiency passenger cars equipped with or without Gasoline Particulate Filters (GPF).

Performance Benefits

- ✓ **Cold Start:** Excellent fluidity at extreme low temperatures, ensuring immediate oil circulation.
- ✓ **Fuel Economy:** Superior fuel economy benefits and optimized reduction in carbon emissions.
- ✓ **Total Engine Protection:** Exceptional resistance to thermal oxidation and deposit control.

Specifications and Approvals

- BMW Longlife-22 FE++

TYPICAL TECHNICAL CHARACTERISTICS

Property	Method	Unit	Typical Value
Appearance	Visual	—	Clear & Bright
Density @ 15°C	ASTM D4052	g/ml	0.844
Kinematic Viscosity @ 40°C	ASTM D445	mm ² /s	32.30
Kinematic Viscosity @ 100°C	ASTM D445	mm ² /s	6.39
Viscosity Index	ASTM D2270	—	154
Pour Point	ASTM D6892	°C	-45
Flash Point COC	ASTM D92	°C	224
Total Base Number (TBN)	ASTM D2896	mg KOH/g	7.8
Sulfated Ash	ASTM D874	wt%	0.75
CCS Viscosity @ -35°C	ASTM D5293	mPa·s	5,400
HTHS Viscosity @ 150°C	ASTM D4683	mPa·s	2.11

Typical values are not specifications and may vary within production tolerances.

STORAGE, HANDLING & HEALTH SAFETY

- Storage:** All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.
- Health, Safety & Environment:** Health and safety information is available on the appropriate Material Safety Data Sheet (MSDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products.