Basekim
Chemical Production Co.Ltd.

TECHNICAL DATA SHEET (TDS) — Basekim Marine Oil

Product Name: Basekim Marine Oil
Supplier: Basekim Chemical Production Co., UAE / Turkey

Product Description

Basekim Marine Oil is a premium engine oil formulated for marine applications, engineered to handle long operating hours, high loads, salt & moisture exposure, heavy fuel combustion, corrosion, and demand for stable lubrication and engine cleanliness.

Typical Applications

- Cylinder lubrication for two-stroke crosshead marine engines
- Trunk piston engines (medium-speed 4-stroke)
- Auxiliary engines onboard ships
- Marine gearboxes and stern-tube oil where specified
- Circulating oil systems, bearings, and other marine rotating equipment

Key Benefits

Benefit	Operational Advantage
High alkalinity / strong base number	Neutralize acids from fuel combustion; protect cylinder liners and ring grooves
Excellent detergency and dispersancy	Keeps soot, deposits, and combustion by-products in suspension; reduces buildup
Corrosion resistance (salt moisture)	Extends component life in humid / sea spray environments
Oxidation & thermal stability	Prolongs oil life; reduces oil consumption and maintenance intervals
Water demulsification & foam control	Ensures effective lubrication even with water ingress; reduces mechanical issues
Clean operation	Better performance, less downtime, smoother engine operation

İLKBAHAR MAH. GALİP ERDEM CD.FAHREDDIN PASA (613) SOKAK, NO.6, ÇANKAYA ANKARA/TURKEY
00903125147074
00903125147081
info@basekim.com
www.basekim.com

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Typical Physical & Performance Specifications

Property	Typical Value / Range*
Density @ 15 °C	~0.90-0.92 g/cm³ for cylinder oils; lower for lighter marine oils
Kinematic Viscosity @ 40 °C	~100-200 cSt (for heavy cylinder oils), 30-100 cSt for lighter marine uses
Viscosity @ 100 °C	~10-25 cSt (varies)
Viscosity Index	~90-110 or more
Base Number (BN)	For cylinder oils often 30-70 mg KOH/g; trunk-piston or auxiliary often lower
Flash Point (COC)	≥ ~200-230 °C
Pour Point	~ -12 to -20 °C (could be colder for certain formulations)
Foaming Tendency	Low; meets ASTM / ISO relevant marine standards
Water Tolerance / Demulsibility	Good ability to separate water and maintain stability
Oxidation Stability	High: minimal increase in TAN / sludge under extended engine run conditions

These are indicative "typical" figures. Final specs must come from your lab / COA for each grade.

Product Grades

Possible grades / variants may include:

- Cylinder Oil (for two-stroke, high BN)
- Trunk Piston Oil (medium speed 4-stroke)
- Light Marine Engine Oils (for auxiliaries)
- System / Circulating Oils (for bearings, stern tubes, etc.)

Each grade will have different BN, viscosity, and additive strengths.

Packaging & Supply

- 20 L pails / drums (for onboard or small-scale)
- 200 L steel drums (standard port / ship supply)
- IBC tanks / flexitanks / bulk for large vessels or fleet supply

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Every batch is supplied with a Certificate of Analysis (COA) and product specification sheet (for approvals / inspections) as per Basekim's product information. Basekim

Storage & Handling Recommendations

- Store under cover, clean, dry, protected from extreme heat and direct sunlight.
- Recommended storage temperature ~5-40 °C.
- Keep containers sealed to avoid contamination (water, foreign particles, vapors).
- Use clean dispensing equipment; avoid mixing with other oils unless fully compatible.

Maintenance & Oil Change Guidelines

- Regular monitoring: percent water, TAN (Total Acid Number), TBN, viscosity changes, soot content.
- Change oil when lab analysis indicates performance degraded (e.g. elevated TAN, increased viscosity, presence of excessive sludge).
- Follow engine manufacturer's instructions for feed rates and oil change intervals.

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