



TECHNICAL DATA SHEET

BRIGHT STOCK

Product type: High-viscosity mineral base oil

Grade: Industrial lubricant base stock

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Product Description

Bright Stock is a high-viscosity petroleum base oil used to provide body, film strength and load-carrying performance in heavy-duty lubricant formulations. It is suitable for blending with lighter base oils and additive packages. Basekim identifies applications in gear oils, heavy engine oils, compressor oils, marine cylinder oils, metalworking fluids and industrial greases.

Key Benefits

- High viscosity and strong lubricating film
- Good load-carrying capability
- Good thermal and oxidation stability
- Compatible with lighter mineral base oils
- Improves lubricant body and viscosity
- Suitable for industrial and marine formulations

Typical Properties

Property	Test Method	Typical Value
Appearance	Visual	Clear, bright, dark amber liquid
Kinematic viscosity at 40°C	ASTM D445	420–520 mm ² /s
Kinematic viscosity at 100°C	ASTM D445	28–34 mm ² /s
Viscosity index	ASTM D2270	85 minimum
Density at 15°C	ASTM D4052	0.895–0.925 g/cm ³
Flash point, Cleveland open cup	ASTM D92	260°C minimum
Pour point	ASTM D97	–6°C maximum
Carbon residue	ASTM D4530	1.5% mass maximum
Colour	ASTM D1500	6.0 maximum
Water content	ASTM D6304	0.10% maximum



Property	Test Method	Typical Value
Sulfur content	ASTM D4294	Grade dependent

Note: These are representative industry values, not guaranteed Basekim specifications. The applicable Certificate of Analysis controls each shipment.

Typical Applications

- Automotive and industrial gear oils
- Marine cylinder and engine lubricants
- Heavy-duty engine oils
- Compressor oils
- Grease manufacturing
- Metalworking lubricants
- High-viscosity industrial oils
- Blending with SN-grade base oils

The supplier states that Bright Stock may be blended with lighter base oils to produce balanced-viscosity lubricant formulations.

Blending Guidance

Add Bright Stock to the blending vessel using heated transfer equipment when necessary. Maintain sufficient circulation or agitation to obtain a uniform blend.

A handling temperature of approximately **40–70°C** may improve pumping and mixing. Avoid unnecessary overheating and prolonged exposure to air at elevated temperatures.

The required dosage depends on the target viscosity and finished lubricant specification. Laboratory blend calculations and performance testing are recommended before commercial production.

Storage and Handling

Store in clean, dry and tightly closed tanks or containers. Protect from water, dust and other contamination.

Keep away from strong oxidising agents and sources of intense heat. Use suitable heating coils or controlled warming where the product becomes difficult to pump.



Packaging

Basekim lists the following supply options:

- 200-litre steel drums
- IBC containers
- Flexitanks
- Bulk ISO tanks

Shelf Life

Typical shelf life: 24 months in unopened containers under appropriate storage conditions. Product quality should be checked before use after extended storage.

Supplier

Basekim Chemical Production Co. Ltd.

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