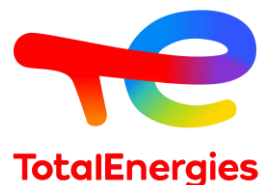


# TotalEnergies HBF 4



## SYNTHETIC FLUID FOR BRAKE SYSTEMS

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### APPLICATIONS

- TOTAL HBF 4 is recommended for brake and clutch systems of all vehicles using synthetic fluids when a DOT 4 level is required.
- TOTAL HBF 4 is miscible with all other synthetic fluids of similar quality.
- TOTAL HBF 4 is not miscible with mineral based fluids (LHM) and silicon-based fluids.
- **The color of the product can vary from colorless to amber.**
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### PERFORMANCES

- SAE J 1704
- FMVSS 116 DOT 4
- ISO 4925 CLASS 4
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### CUSTOMER BENEFITS

- Synthetic fluid.
- Very high dry and wet boiling points adjusted to ever increasing temperatures encountered in braking systems : prevents from "vapour lock".
- Resistant to moisture absorption.
- Viscosity suitable at cold as well as high temperatures.
- Provides corrosion protection for metals used in braking systems: cast iron, aluminum, steel, copper, brass etc.
- Compatible with rubber seals and hoses.
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### CHARACTERISTICS

| HBF 4                                                         | Units              | SAE Grade   |
|---------------------------------------------------------------|--------------------|-------------|
| Volumetric mass at 20°C                                       | kg/dm <sup>3</sup> | 1.05 / 1.07 |
| Viscosity at - 40°C (max) (Spec KV-40<1800mm <sup>2</sup> /S) | mm <sup>2</sup> /s | 880 max     |
| Viscosity at 100°C (min)                                      | mm <sup>2</sup> /s | 1,5         |
| Dry boiling point ERBP (min)                                  | °C                 | 230         |
| Wet boiling point WERBP (min)                                 | °C                 | 155         |