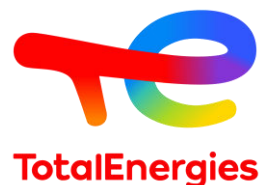


# TotalEnergies HBF 3



## SYNTHETIC FLUID FOR BRAKE SYSTEMS

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### APPLICATIONS

- TOTAL HBF 3 is recommended for brake and clutch systems of all vehicles using synthetic fluids when a DOT 4 level or higher is not required.
- TOTAL HBF 3 is miscible with all other synthetic fluids of similar quality.
- TOTAL HBF 3 is not miscible with mineral based fluids (LHM) and silicon based fluids.

### PERFORMANCES

- SAE J 1703
- FMVSS 116 DOT 3
- ISO 4925 Class3

### CUSTOMER BENEFITS

- Synthetic fluid.
- Very high dry and wet boiling points adjusted to high 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, aluminium, steel, copper, brass etc.
- Compatible with rubber seals and hoses.
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### CHARACTERISTICS

<b>HBF 3</b>	<b>Units</b>	<b>SAE Grade</b>
Volumetric mass at 15°C	kg/dm <sup>3</sup>	1.04
Viscosity at - 40°C (max) (Spec KV-40<1800mm <sup>2</sup> /S)	mm <sup>2</sup> /s	1207
Viscosity at 100°C (min)	mm <sup>2</sup> /s	1,95
Dry boiling point ERBP (min)	°C	229
Wet boiling point WERBP (min)	°C	149
Flash point Pensky Martens		110