



# HBF 4

## SYNTHETIC FLUID FOR BRAKE SYSTEMS

### USES

- 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.

### PROPERTIES

- 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, aluminium, steel, copper, brass etc.
- Compatible with rubber seals and hoses.

### CHARACTERISTICS

| HBF 4                         | Units              |      |
|-------------------------------|--------------------|------|
| Volumetric mass at 20°C       | kg/m <sup>3</sup>  | 1055 |
| Viscosity at - 40°C (max)     | mm <sup>2</sup> /s | 1800 |
| 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  |

*The typical characteristics mentioned represent mean values.*

### SPECIFICATIONS

SAE J 1704  
FMVSS 116 DOT 4  
ISO 4925

This lubricant, when used in accordance with our recommendations and for the application for which it is intended, does not constitute a special hazard

A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant

June 3<sup>rd</sup> 2002

TOTAL HBF 4

