

## HFO SERIES | SPECIFICATION - HYDRAULIC OILS

Hi-Force HFO oil grades are a range of specialist premium quality, very high viscosity index multigrade hydraulic fluids. HFO oil grades are manufactured from highly refined base oils, which have good oxidation resistance, lowering the possibility of gums and lacquers. They are blended using carefully selected additives and special viscosity index improvers, which offer superior viscosity/temperature characteristics. They can be used where extremes of ambient temperatures are encountered.

### SPECIFICATIONS

DIN: 51524 part 3, category HVLP  
51517 part 2

ISO: 6743/4, category HV

Sperry Vickers M-2950-S  
I-286-S

### ADVANTAGES / BENEFITS

- High viscosity index
- Excellent low temperature performance
- Incorporates the latest corrosion inhibitors for protection against all forms of corrosion
- Highly shear stable providing stay-in-grade performance
- Good anti-foaming and air release properties
- Rapid water separation
- Exceptional anti-wear performance
- High oxidation resistance and thermal stability

### PHYSICAL AND CHEMICAL PROPERTIES

Properties	HFO15	HFO46
Specific Gravity @ 15.6°C	0.848	0.882
Kinematic Viscosity @ 40°C (cSt)	15.0	46.0
Kinematic Viscosity @ 100°C (cSt)	3.90	8.40
Viscosity Index	154	156
Flash Point (COC °C)	150	212
Pour Point (°C)	-38	-33

### SCOPE OF USE

HFO15 is suitable for all hand-operated pumps and jacks.

HFO46 is for power driven equipment.

Cross contamination between the two grades will not cause any issues.

**Head Office:**

**Hi-Force Limited**  
**Prospect Way, Daventry**  
**Northamptonshire NN11 8PL**  
**United Kingdom**  
**Tel: + 44 1327 301000 | Fax: + 44 1327 706555**  
[www.hi-force.com](http://www.hi-force.com)

**Regional Offices:**

For information on our offices worldwide, scan the below QR code

