

# ITR GEAR HP5

**ITR GEAR HP5** are extreme pressure gear oils, specially formulated to meet extreme pressure (EP) chemical technology meeting the rigorous service demand of commercial fleet mechanical transmissions, axles and gear boxes. It is designed to minimize scuffing and scoring of gear surfaces under high speed, extremely high torque and shock load operation. Recommended for conventional (manual) transmissions, differentials, final drives and other gear cases of trucks, buses, cars, farm tractors and earth moving equipment where extreme pressure, hypoid or multi-purpose gear oils of API GL-5 performance level are required.

## PERFORMANCE STANDARDS

- API GL-5
- US MIL-L- 2105D
- UK DEFENCE CS 3000B
- IS:1118(1992)

## TYPICAL CHARACTERISTICS OF SAE 80W-90

- Kinematic Viscosity @ 40 °C (ASTM D 445): 130-150
- Kinematic Viscosity @100 °C (ASTM D 445): 16.0-17.0
- Viscosity Index (ASTM D 2270): >125
- Low Temperature Viscosity by Brookfield viscometer: < 1,50,000 cP at -26 deg.c
- Pour point (ASTM D 97): <-30
- Flashpoint (ASTM D 92 & 93): >220

## TYPICAL CHARACTERISTICS OF SAE90

- Kinematic Viscosity @ 40 °C (ASTM D 445): 170-190
- Kinematic Viscosity @100 °C (ASTM D 445): 18-18.5
- Viscosity Index (ASTM D 2270): >110
- Low Temperature Viscosity by Brookfield viscometer: NA
- Pour point (ASTM D 97): <-18
- Flashpoint (ASTM D 92 & 93): >240

## TYPICAL CHARACTERISTICS OF SAE85W-140

- Kinematic Viscosity @ 40 °C (ASTM D 445): 280-300
- Kinematic Viscosity @100 °C (ASTM D 445): 27.0-28.0
- Viscosity Index (ASTM D 2270): >125
- Low Temperature Viscosity by Brookfield viscometer: < 1,50,000 cP at -12deg.c
- Pour point (ASTM D 97): <-21
- Flashpoint (ASTM D 92 & 93): >230

## TYPICAL CHARACTERISTICS OF SAE140

- Kinematic Viscosity @ 40 °C (ASTM D 445): 340-360
- Kinematic Viscosity @100 °C (ASTM D 445): 32-32.5
- Viscosity Index (ASTM D 2270): >110
- Low Temperature Viscosity by Brookfield viscometer: NA
- Pour point (ASTM D 97): <-18
- Flashpoint (ASTM D 92 & 93): >230