

Moving equipment power forward



IRGAFLO® Viscosity Index Improvers Leveraging performance and efficiency over a broad range of temperatures

When **performance** matters - BASF Lubricant Components make the difference. Modern lubricants for automotive and industrial equipment are constantly being pushed to their limits. Customers are increasingly aware of total cost of ownership, which has led to the demand for extra productivity, fuel economy, higher power density (e.g. in hydraulic systems), longer service intervals and reduced maintenance time. IRGAFLO® Viscosity Index Improver additives improve the viscosity-temperature behavior of lubricants and ensure high energy efficiency at all operating conditions.



IRGAFLO® Viscosity Index Improvers

Make the difference

Customer benefits

- Improved “cold-start” performance
- Increased equipment power
- Effective in most base stocks
- Broad portfolio to meet shear stability requirements
- Performance over a broad temperature profile
- Lower energy consumption enabling better fuel economy, lower cost of operation, and lower CO₂ emissions
- Significant renewable content

Resource Efficiency



Durability



Health and Safety



Renewables





Performance highlights

IRGAFLO® Viscosity Index Improvers

Fluids with our advanced IRGAFLO® technology maintain optimal viscosity over a wide temperature range, allowing for colder starts and higher temperature operations.

Our IRGAFLO® Viscosity Index Improvers have state-of-the-art regulatory profiles and boost lubricant performance over a broad temperature profile range.

Our IRGAFLO® Viscosity Index Improvers promote lower energy consumption enabling better fuel economy, lower cost of operation, and lower CO₂ emissions as well as increased equipment power in many applications, e.g.:

- Hydraulic fluids
- Engine oils
- Transmission lubricants, including e-mobility
- Gear lubricants

Product range	Application	Thickening efficiency	Shear stability	Additional benefits	PSSI*	Viscosity index @ 5% Treat ***
Irgaflo® 1100 V	Hydraulic fluids	■	■ ■ ■	For Gr. II & III	31	132
Irgaflo® 6200 V	Hydraulic fluids	■	■ ■ ■	For Gr. I & II, with PPD performance	39	132
Irgaflo® 6300 V	Hydraulic fluids	■ ■	■ ■		48	149
Irgaflo® 6305 V	Hydraulic fluids	■ ■	■ ■	Additional PPD performance	49	151
Irgaflo® 6100 V	Hydraulic fluids	■ ■ ■	■ ■		59	162
Irgaflo® 6000 V	Hydraulic fluids	■ ■ ■	■		75	167
Irgaflo® 3500 V	Engine Oils	■ ■ ■	■ ■ **	High VI, excellent HTHS	13 **	173
Irgaflo® 1050 V	Gear Oils	■	■ ■ ■	Excellent at low temperatures	18	140

■ ■ ■ Best performance ■ ■ Good performance ■ Adequate performance Biomass balance/ BMBcert™ available

Typical values may vary

* KRL 20 hr, CEC-L-45-A-99. Treat rates correspond to a typical quantity of use, Gr. II base oil (10% for Irgaflo® 1050 & 1100 V, 5% for all others)

** 30 cycles Boschpump

*** Corresponds to 5% IRGAFLO® VII (10% for Irgaflo® 1050 V) in a Gr. I base oil, KV100 = 5.2 cSt, VI = 104



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