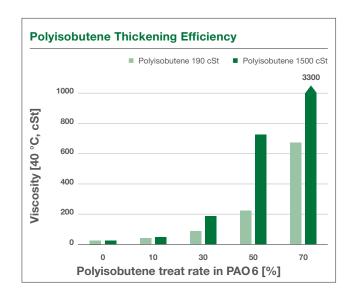


Polyisobutenes for the Lubricant Industry

Cost-effective high viscosity base stocks with good shear stability



BASF's polyisobutene (PIB) portfolio of PIB homopolymers has been designed to meet the demanding requirements of the lubricant industry.

High performance PIB grades

- are cost attractive high viscosity components for thickening or co-thickening of lubricants.
- are suitable for thickening mineral oil base stocks and are also compatible with PAO and Ester base stocks.
- can be used in a variety of industrial, driveline and grease applications,
 e.g. axle and transmission lubricants, hydraulic and gear lubricants
 as well as metalworking fluids.
- do not contain any chlorine and are thus not promoting any corrosion.

Additionally, BASF polyisobutenes feature a very high viscosity index for improved equipment protection at higher temperatures, are very shear stable and very well suited for high load applications requiring low viscosity loss and extended drain intervals.

BASF Polyisobutene Properties in PAO Blends

	Blend	Viscosity (40 °C) cSt	Viscosity (100 °C) cSt	Viscosity Index	Pour Point (°C)	KRL Shear 20 h	KRL Shear 100 h
Method		ASTM D445	ASTM D445	ASTM D2270	ASTM D97	DIN 51350-6, ASTM D445	DIN 51350-6, ASTM D445
Polyisobutene 190 cSt	42 % in PAO 6	156	17.6	124	- 57	< 1.0 %	1.4 %
Polyisobutene 1500 cSt	28% in PAO6	150	19.1	145	-54	2.1 %	5.1 %

BASF Polyisobutene Grades – Overview

	Method	Unit	BASF Polyisobutene Viscosity Grades						
			190 cSt	230 cSt	500 cSt	640 cSt	700 cSt	1500 cSt	
Viscosity at 40 °C	ASTM D445	cSt	4,650	5,600	15,000	18,600	22,500	48,000	
Viscosity at 100 °C	ASTM D445	cSt	190	230	500	640	700	1,500	
Viscosity Index	ASTM D2270	-	145	150	175	191	198	230	
Chlorine Content	ASTM D7359	ppm	< 1	< 1	< 1	< 1	< 1	< 1	

EVO 1810 ® = reg. trademark of I

BASF SE Fuel and Lubricant Solutions