

TECHNICAL DATA SHEET

JETTA 680

Synthetic compressor, machinery and hydraulic oils.

VISCOSITY @ 40 °C · ISO 68	VISCOSITY INDEX · ISO 68	FLASH POINT, COC · ISO 68	POUR POINT · ISO 32-68
65.95 mm ² /s	155	248 °C	<-60 °C

DESCRIPTION

JETTA 680 oils are fully synthetic, heavy duty, ashless multifunctional oils formulated from the highest quality polyalphaolefin (PAO) base fluids. They are intended for use in air compressors, vacuum pumps, hydraulic systems and universal machinery lubrication operating in environmentally sensitive areas. The JETTA 680 family is low-foaming, separates readily from water, offers protection against wear, rust and corrosion, and resists oxidation. It is particularly effective in minimizing deposits in the discharge area of rotary screw compressors. The very low pour point makes it an ideal choice for low-temperature applications.

PERFORMANCE LEVELS

- Exceeds DIN 51524 HLP and DIN 51506 VDL.

COST SAVING BENEFITS

- Fully synthetic oil provides an extremely wide temperature range and oxidation stability, ensuring greatly extended servicing intervals.
- Low friction coefficient provides excellent lubrication and reduces wear.
- High degree of demulsification provides greater lubrication efficiency.
- Provides excellent seal compatibility and thermal stability.
- Low foaming reduces residue, varnish and scum build-up, so reducing maintenance costs.
- Provides very high rust protection.
- Completely water resistant.
- Compatible with seal and gasket materials normally used in hydraulic and compressor systems.

APPLICATIONS

- Gear Compressors
- Screw Compressors
- Centrifugal Compressors
- Twin-Lobe Compressors

- All Types of Vacuum Pumps
- Hydraulic Systems
- Axial Flow Compressors
- Internally Compounded Compressors
- Reciprocating Compressors
- Circulating and Splash Lubricated Systems
- Mist Systems

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	METHOD	UNIT	32	46	68	100	150
Appearance	Visual	---	Bright & Clear	Bright & Clear	Bright & Clear	Bright & Clear	Bright & Clear
Density at 29.5 °C	ASTM D-4052	g/mL	0.819	0.821	0.826	0.846	0.846
Viscosity at 40°C	ASTM D-445	mm ² /s	31.39	44	65.95	102	150
Viscosity at 100°C	ASTM D-445	mm ² /s	6.13	7.5	10.81	14.6	19.3
Viscosity index	ASTM D-2270	-	147	136	155	147	147
Flash Point, COC	ASTM D-92	°C	244	249	248	240	257
TAN	ASTM D-974	mg KOH/g	0.360	0.340	0.310	0.310	0.300
Pour Point	ASTM D-97	°C	<-60	<-60	<-60	-60	-55
Air release at 50°C	DIN 51381	min	1	2	5	9	14
Emulsion Characteristics at 54°C	ASTM D-1401		40-40-0 (10 min)	40-40-0 (10 min)	40-40-0 (15 min)	40-40-0 (5 min)	40-40-0 (5 min)
Copper Corrosion at 100°C for 3 hours	ASTM D-130		1a	1a	1a	1a	1a
Foam Test	ASTM D-892						
- Sequence I			Nil	Nil	Nil	Nil	Nil
- Sequence II			Nil	Nil	Nil	Nil	Nil
- Sequence III			Nil	Nil	Nil	Nil	Nil