



MAKER ASTRA

Description

They are extreme pressure oils, especially suited to lubricating drills, hammers and pneumatic tools, even under severe working conditions. Also for all pneumatic mechanisms that require a fluid with the ability to capture water drops, thus preventing contact with metal surfaces.

Maker Astra fluids are made with mineral oils obtained from paraffinic crude oils treated specially with solvents during the refining process in order to achieve excellent oxidation resistance properties. They include additives which increase their ability to support large loads and promote the formation of stable emulsions.

Properties

- Good anticorrosive and antirust properties, both at high and low temperatures.
- Emulsion form stable with water.
- Excellent EP properties preventing the wear of mobile parts and reducing the formation of deposits and pollutants.
- Good adhesion.

Quality levels, approvals and recommendations

- Atlas Copco
- Gardner Denver
- Ingersol Rand
- ISO 6743/11 - PAC/PBC



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Technical specifications

	UNIT	METHOD	VALUE	
ISO Viscosity Grade			100	150
Density at 15 °C	g/cm3	ASTM D4052	0.890	0.892
Kinematic viscosity at 40 °C	cSt	ASTM D445	100	150
Kinematic viscosity at 100 °C	cSt	ASTM D445	11.3	14.67
Viscosity index	-	ASTM D2270	97	97
Four ball wear, scar diameter (1h, 15 kg, 75 °C)	mm	ASTM D4172	0.25	0.25
Four ball wear, scar diameter (1h, 40 kg, 75 °C)	mm	ASTM D4172	0.36	0.36
4 Ball EP, wear load index	-	ASTM D2783	57.8	48.7
4 Ball EP, welding load	kg	ASTM D2783	315	315
Flash point, open cup	°C	ASTM D92	230	230
Pour point	°C	ASTM D97	-18	-15
Rust, method A	-	ASTM D665	Pass	Pass
Water separability at 54 °C	min	ASTM D1401	80	80

The above mentioned characteristics are typical values and should not be considered product specifications.