



Technical Data sheet

ILS Process Lubricants

Additive Free Process Oils

Description

ILS PL Lubricants are a range of additive free mineral process oils varying in composition from highly Napthenic to highly Paraffinic. These oils have been produced using solvent extraction of high vacuum distilled feedstock.

Typical Applications

These process oils are suitable for use in a wide range of industrial applications ranging from rubber processing and extending through to metal quenching, printing inks, adhesives, polishes and paints, wood treatment & leather processing products.

Typical Properties

Parameter	Test Method	Units	PL12	PL32	PL52	PL100	PL450
Colour	ASTM D1500	-	1.5	1.5	2.	<2.0	<4.5 max
Appearance		-	C & B	C & B	C & B	C & B	C & B
Density @ 15 °C	ASTM D1298	Kg/L	.885	.864	.867	.889	.915
Kinematic Viscosity @ 40°C	ASTM D445	cSt	10.15	30	52	113	480
Kinematic Viscosity @ 100°C	ASTM D445	cSt	2.6	5.3	7.6	11.7	29.9
Viscosity Index	ASTM D2270	-	81	111	110	91	95
Flash Point, PMCC	ASTM D92	°C	147	204	222	232	280
Copper Strip	ASTM D130	-	1A	1A	1A	1A	1A

Corrosion (3 hrs @ 100°C)							
Pour Point	ASTM D97	°C	-49	<-9	-9	-9	-3
Total Acid Number	ASTM D94	Mg(KOH) /g	<0.01	0.01	0.01	0.02	0.03
Sulphur	IP 336	%w/w	-	0.50	0.50	0.78	1.1
Hydrocarbon Type							
Paraffinic	ASTM D2140	%w/w	44.0	66	68	62	68
Aromatic	ASTM D2140	%w/w	10.0	1	2	8	10
Napthenic	ASTM D2140	%w/w	46.0	33	30	30	22
Water Content	ASTM D6304	%vol	<20	.004	.004	.01 max	.01 max
Aniline Point	ASTM D611	°C	80	105	110	109	111

Note: Data is typical and does not constitute a specification

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet.

It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. See www.ils.co.nz No responsibility is taken by either ILS LTD for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.