INDUSTRIAL
LUBRICANTS &
SERVICES LIMITED

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

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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

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