

## Hydroil AL Series

**HYDROIL AL SERIES**, developed for hydraulic systems of aluminum hot rolling and cold rolling machines and fully compatible with rolling oil.

**HYDROIL AL SERIES**, specially developed to solve staining problems in the case of mixing hydraulic system oils to rolling oil. Eliminate the staining problems thanks to their special additives which are compatible both rolling oil additive and alumina.

**HYDROIL AL SERIES**, meet the all requirements of hydraulic system oil standards.

**HYDROIL AL SERIES**, suitable for all wing type, piston type and gear type pumps which can be found in hydraulic systems.

**HYDROIL AL SERIES**, also compatible with hydraulic systems seals.

### TECHNICAL PROPERTIES

Characteristics	Test Methods	16	22	32	46	68
Odor	-	Typical	Typical	Typical	Typical	Typical
Appearance	ASTM D 4176-1	C&B	C&B	C&B	C&B	C&B
Density @15 °C kg/l	ASTM D 4052	0,836	0.840	0.840	0.842	0.846
Viscosity @ 40 °C, cSt	ASTM D 445	16	22	32	46	68
Viscosity @100 °C, cSt	ASTM D 445	3.84	4.7	5.3	6.7	8.6
Viscosity Index	ASTM D 2270	136	136	148	176	180
Flash Point COC, °C	ASTM D 92	108	108	112	116	120
Sulphated Ash %	ASTM D 2622	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sulphur, %	ASTM D 2622	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Neutralization Number mgKOH/g	ASTM D 974	0.14	0.14	0.14	0.14	0.14
4-Ball Wear Test , mm	ASTM D 4172	0.34	0.35	0.36	0.38	0.38
Copper Corrosion Test A3	-	Pass	Pass	Pass	Pass	Pass
Water Amount,%wt.	ASTM D 6304	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Solid Foreign Matter,%wt.	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Alumina Stain Test, 300 °C,1 hour	-	Unstained	Unstained	Unstained	Unstained	Unstained

\* The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modification is reserved.

### HEALTH & SAFETY

- For information on the safe handling and use of this product, refer to its Material Safety Data Sheet.

### PACKAGING

180 kg drum, 850 kg IBC.

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Production : Arslanbey Yolu Cuhane Cad. No:136  
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