

Alusynt[®] FGH

FOOD-GRADE SYNTHETIC HYDRAULIC FLUIDS

PRODUCT Alusynt[®] FGH are a range of **food-grade**, synthetic hydraulic fluids, registered by the USA institution NSF INTERNATIONAL (see <http://www.nsf.org/USDA/Listings.asp?Company=N10201>) in **Category H1** for applications where incidental contact with food may occur.

Aluchem products and plants have been also **Kosher** certified.

PERFORMANCE Alusynt[®] FGH hydraulic fluids possess very high Viscosity Index and very low Pour Point, allowing efficient operation in a wide temperature range. They also offer outstanding performance in terms of demulsibility, strong anti-foam and air-release capacities, long term corrosion protection.

Alusynt[®] FGH hydraulic fluids are compatible with all materials, elastomers and paints normally found in hydraulic and circulatory lubrication systems.

Alusynt[®] FGH Food-Grade synthetic fluid are designed to meet the needs of lubrication under the most severe operating conditions, guarantee a perfect lubrication even under high pressures and high temperatures. The excellent wear resistance, enable you to greatly reduce the ordinary and extraordinary maintenance.

Alusynt[®] FGH hydraulic fluids largely meet the requirements of the Standard **DIN 51524/2/3 HLP**.

APPLICATION Alusynt[®] FGH fluids are recommended in all kinds of hydraulic applications, especially in severe temperature and load conditions. By their nature are also used successfully for lubricating pneumatic lines.

Technical Data	Method	Unit	Typical Values			
ISO Viscosity Grade	ASTM D 2422	-	32	46	68	100
Operating temperature range	-	°C	- 50 ÷ 160	- 45 ÷ 160	- 45 ÷ 160	- 40 ÷ 180
Viscosity at 40°C	ASTM D 445	mm ² /s	32,1	46,6	67,75	101,1
Viscosity at 100°C	ASTM D 445	mm ² /s	6,10	7,84	10,25	13,7
Viscosity Index	ASTM D 2270	-	140	138	137	136
Pour point	ASTM D 97	°C	- 57	- 54	- 54	- 48
Flash point, C.O.C.	ASTM D 92	°C	225	230	230	232
Total Acidity Number (TAN)	ASTM D 664	mgKOH/g	< 0,1	< 0,1	< 0,1	< 0,1
Evaporation loss (22 hrs at 99°C)	ASTM D 972	-	< 1	< 1	< 1	< 1
Demulsibility (oil/water/emulsion - 10')	ASTM D 1401	ml/ml/ml	40/40/0	40/40/0	40/40/0	40/40/0
Foaming, Sequence I,II,III	ASTM D 892	ml/ml	0/0	0/0	0/0	0/0
Density at 20°C	ASTM D 1298	g/cm ³	0,835	0,840	0,845	0,850

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The data in this product information is based on our general experience and knowledge. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary tests with the selected.