

# Alusynt® Dinal PS

## HIGH PERFORMANCE SYNTHETIC LUBRICANTS FOR HYDRAULIC SYSTEMS

- DESCRIPTION** Synthetic hydraulic fluids, with advanced new generation “zinc-free” additives, specially developed for severe hydraulic applications.  
Aluchem products and plants have been also **Kosher** certified.
- PROPERTIES** **Alusynt® Dinal PS** fluids are widely appreciated for the following properties: very high Viscosity Index, allowing a very stable performance in a wide temperature range, top anti-wear and anti-corrosion performance, low volatility, excellent filterability in presence of micronic filters, outstanding demulsibility, air-release and anti-foam performance, low pour point.  
**Alusynt® Dinal PS** fluids are fully compatible with all materials and elastomers normally found in hydraulic systems.
- PERFORMANCE** Thanks to their specially designed chemical structure, **Alusynt® Dinal PS** fluids offer outstanding stability even at high temperature and pressure; they drastically reduce wear of all moving parts, prevent internal oil leakage and allow very long oil drain periods.  
Largely meet the requirements of the following Specifications:
- DIN 51524 Parts 2 & 3
  - DENISON HF-0 & HF-2
  - VICKERS V104C
  - CINCINNATI MILACRON P-38, P-54, P-55, P-57
- Maintenance costs are significantly reduced and system reliability and useful life are substantially increased.
- APPLICATION** Ideal for all hydraulic systems running in severe condition, such as: high operating temperature, high pressure, cold starts and wide temperature fluctuations, generation of large quantities of condensate.

P.T.O.

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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.

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Technical Data	Method	U.M.	Typical Value						
			15	22	32	46	68	100	150
ISO VG grade	ASTM D 2422	-	15	22	32	46	68	100	150
Kin. Viscosity at 40°C	ASTM D 445	mm <sup>2</sup> /s	15,18	22,35	32,62	47,49	68,77	100,24	147,63
Kin. Viscosity at 100°C	ASTM D 445	mm <sup>2</sup> /s	4,06	5,40	7,05	9,37	13,14	16,20	22,33
Viscosity Index	ASTM D 2270	-	181	192	186	185	196	174	180
Pour Point	ASTM D 97	°C	-48	-45	-45	-42	-42	-42	-42
Specific Gravity at 20°C	ASTM D 1298	g/cm <sup>3</sup>	0,835	0,845	0,850	0,850	0,855	0,860	0,865
Flash Point C.O.C.	ASTM D 92	°C	215	216	216	220	224	226	229
Demulsibility at 54°C	ASTM D 1401	ml/ml/ml	40-40-0 (5')						
Foaming Sequence I,II,III	ASTM D 892	ml/ml	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Air release, 0,2% at 50°C	ASTM D 3427	min	< 4	< 4	< 4	< 4	< 6	< 6	< 6
Class of contamination by solid particles	NAS 1638	-	7						
TAN Total acid number	ASTM D 664	mg KOH/g	< 0,4						
Noack volatility at 250°C	UNI 20064	%	7,88	7,25	6,94	6,86	6,70	6,61	6,49
Filterability Factor	PALL	-	104						
Shear Stability Test (BOSCH injector) Permanent Visc. Loss at 100°C	ASTM D 6278	%	0,1	0,1	0,1	0,1	0,3	0,3	0,5
4 Ball wear test, 1200 rpm, 60', 40 Kg	ASTM D 4172	mm	0,40						
TOST life	ASTM D 943	hrs	>1500						

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