

Alusynt[®] CE 500 Plus, CE 750 Plus

VERY HIGH PERFORMANCE SYNTHETIC OILS FOR BREATHING-AIR COMPRESSORS

- PRODUCT** **Alusynt[®] CE 500 Plus** and **CE 750 Plus** are fully synthetic oils, specially developed for high-pressure reciprocating compressors processing air for human respiration.
Aluchem products and plants have been also **Kosher** certified.
- PROPERTIES** **Alusynt[®] CE 500 Plus** and **CE 750 Plus** ensure lacquer and deposit-free lubrication; the outstanding lubricity drastically reduces wear; the very low vapour pressure minimises oil consumption and oil carry-over by the compressed air, with the additional benefit of extended oil-separator life.
The exceptional thermal and oxidative stability of **Alusynt[®] CE 500 Plus** and **CE 750 Plus** drastically reduce CO and CO₂ production.
Alusynt[®] CE 500 Plus and **CE 750 Plus** pass the limits of the following tests: DIN 51506 – VD-L – PNEUROP OXIDATION TEST.
Alusynt[®] CE 750 Plus is recommended for BAUER compressors.
Alusynt[®] CE 500 Plus and **CE 750 Plus** provide substantially increased safety against fire and explosion, thanks to the absence of carbon deposits and the very high self-ignition point (typically 40°C higher than best mineral oils).
Thanks to their low Pour Point values, **Alusynt[®] CE 500 Plus** and **CE 750 Plus** allow easy cold starts and compressor operation at ambient temperatures as low as -30°C.
- APPLICATION** **Alusynt[®] CE 500 Plus** and **CE 750 Plus** fully meet the requirements of lubricants used for processing breathing air, enriched air up to 40% Oxygen (*Nitrox*) Also ideal for high-pressure reciprocating compressors for scuba equipment filling, hyperbaric chambers and medical appliances (dentistry, etc).
Alusynt[®] CE 500 Plus and **Alusynt[®] CE 750 Plus** are recommended for high-pressure reciprocating compressors processing air, up to 5.000 hours.
- GAS COMPATIBL** Carbon Dioxide, Nitrogen, Helium, Natural Gas, Hydrogen, Methane, Propane.

P.T.O

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Property	Method	Unit	Typical Data	
			CE 500 Plus	CE 750 Plus
ISO VG grade	ASTM D 2422	-	100	150
Useful temperature range	-	°C	- 20 ÷ 210	- 15 ÷ 210
Kinematic Viscosity at 40°C	ASTM D 445	mm ² /s	100,24	151,12
Kinematic Viscosity at 100°C	ASTM D 445	mm ² /s	10,86	12,79
Viscosity Index	ASTM D 2270	-	70	70
Pour point	ASTM D 97	°C	- 36	- 33
Flash point (C.O.C.)	ASTM D 92	°C	266	268
Self-ignition point	ASTM D 2155	°C	410	410
Total Acid Number (TAN)	ASTM D 664	mgKOH/g	0,05	0,05
Copper corrosion test (3 hrs at 100°C)	ASTM D 130	-	1a	1a
Specific gravity at 20°C	ASTM D 1298	g/cm ³	0,950	0,965
Evaporation loss, 22 hrs at 99°C	ASTM D 972	%	< 1	< 0,5
Demulsibility at 82°C oil/water/emulsion	ASTM D 1401	ml/ml/ml (minutes)	40/40/0 (10)	40/40/0 (15)
4 Ball test, 1.200 rpm (60') Wear scar diameter	ASTM D 4172	mm	0,50	0,45
Carbon residue (Conradson)	ASTM D 189	% wt	< 0,02	< 0,02
Foaming test: Sequence I, II, III	ASTM D 982	ml/ml	0/0	0/0

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