

**bollettino tecnico informativo**



**ALUSYNT<sup>®</sup> CE 500, CE 750, CE 1000, CE 1200**

**SYNTHETIC OILS FOR RECIPROCATING, VANE COMPRESSORS AND VACUUM PUMPS**

**PRODUCT** ALUSYNT<sup>®</sup> CE 500, CE 750, CE 1000, CE 1200 are totally synthetic, diesters based, lubricants, not containing phosphoric esters, in ISO 100 and ISO 150 grades, conceived for the lubrication of air and gas reciprocating and rotary vane compressors.

ALUSYNT<sup>®</sup> CE 500, CE 750, CE 1000, CE 1200 are suitable for the lubrication of bearings and crankshafts and for separate (drip-feed) lubrication of reciprocating compressor cylinders, also for large bore models and high operating pressures.

ALUSYNT<sup>®</sup> CE 500, CE 750, CE 1000, CE 1200 exhibit superior oil film strength and thermal conductivity, which help in decreasing both the internal friction losses (up to 10%) and the working temperature. These features substantially increase the machine components life.

**PROPERTIES** ALUSYNT<sup>®</sup> CE 500, CE 750, CE 1000, CE 1200 do not form hard deposits, lacquer and sludge - normally produced by mineral lubricating oils when working at high temperatures - leaving clean and well lubricated surfaces. The excellent lubricating power, which is typical of the chemical class to which ALUSYNT<sup>®</sup> CE 500, CE 750, CE 1000, CE 1200 belong, allows a remarkable reduction of wear. Lubricant consumption is drastically reduced, thanks to the very low vapour pressure.

ALUSYNT<sup>®</sup> CE 500, CE 750, CE 1000, CE 1200 are fire safe to use, thanks to the absence of carbon deposits and to the very high fire point (40% higher than the best mineral oils on average).

**APPLICATION** ALUSYNT<sup>®</sup> CE 500, CE 750, CE 1000, CE 1200 are recommended for lubrication of:

➤ movements of cross-head compressors	up to 24.000 hours
➤ trunk-piston compressors	up to 6-8.000 hours
➤ vane compressors	up to 5.000 hours
➤ reciprocating and vane vacuum pumps	at least 4.000 hours

The very high performance of these lubricants is better exploited, since the first fill, if the old oil charge is fully drained when hot and new filters are fitted.

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## ALUSYNT<sup>®</sup> CE 500, CE 750, CE 1000, CE 1200

Typical data						
Property	Method	unit	CE 500	CE 750	CE 1000	CE 1200
ISO VG	ASTM D 2422	-	100	150	220	320
Operating range	-	°C	- 20 ÷ 210	- 20 ÷ 210	- 10 ÷ 210	- 10 ÷ 210
Kinematic Viscosity @ 40 °C	ASTM D 445	mm <sup>2</sup> /s	96,64	156,80	213,86	322,40
Kinematic Viscosity @ 100 °C	ASTM D 445	mm <sup>2</sup> /s	10,54	13,10	15,81	20,33
Viscosity Index	ASTM D 2270	-	90	70	68	68
Pour point	ASTM D 97	°C	-36	- 30	- 27	- 27
Flash point C.O.C	ASTM D 92	°C	>250	270	270	270
Fire point	ASTM D 2155	°C	>400	> 420	> 420	> 420
Carbon residue (Conradson)	ASTM D 189	%	0,02	0,02	0,02	0,02
Total Acid Number (TAN)	ASTM D 664	mgKOH/g	>0,15	< 0,15	< 0,15	< 0,15
Evaporative loss, 22 hrs @ 99 °C	ASTM D 972	%	1	< 1	< 1	< 1
Demulsibility @ 82 °C Oil/water/emulsion	ASTM D 1401	ml (minutes)	40/40/0 (1)	40/40/0 (1)	40/40/0 (5)	40/40/0 (5)
Foaming, Sequence I,II,III:	ASTM D 982	ml/ml	0/0	0/0	0/0	0/0
Copper corrosion, 3 hrs @ 100°C	ASTM D 130	-	1a	1a	1a	1a
4 Ball test, 1.200 rpm (60') Wear scar diameter	ASTM D 4172	mm	0,50	0,45	0,45	0,45
Specific gravity @ 20°C	ASTM D 1298	g/cm <sup>3</sup>	0,960	0,945	0,945	0,945