INA Antifriz Al Super

General Description - Application

INA Antifriz Al Super is a ethylenglycol-based fluid with additives for outstanding protection of the engine cooling system from corrosion, freezing and overheating. Features improved corrosion protection of aluminium and aluminium alloys. INA Antifriz Al Super mixed with the appropriate amount of water, according to Antifreeze Mixing Table, is used as a cooling fluid in automotive and industrial engines.

Performance Level - Specifications

MB-Approval 325.0
MAN 324 Typ NF- Approval
KHD H-LV 0161 0188- Approval
MTU MTL 5048 - Approval
Steyr Landmaschinentechnik P- Approval
VW/Audi/Škoda/Seat/Porsche TL 774 C
BMW N 600 69.0
Opel/GM B 040 0240
Saab 69 01 599
Liebherr Machines Bulle SA TLV 035, TLV 23009 A
Jenbacher TA-Nr. 1000-0201
Bezirksregierung Arnsberg, Dept. for mining and energy 84.12.22.63-2001-2
Deutsche Bundeswehr TL 6850-0038/1
ÖNORM V 5123
NF R 15-601
Cuna NC 956-16
BS 6580/92
ASTM D 3306-00a Type I, ASTM D 4985, SAE J 1034, SAE 1991
INA N 22-112 TIP 1

Properties	INA Antifriz Al Super	Method
Appearance and Colour	Clear, blue-green	visual
Density at 20 °C, g/cm³	1,122	ASTM D 1122
pH Value	7,3	ASTM D 1287
Refractive Index at 20 °C	1,432	ISO 5661
Boiling Point, °C	175	ASTM D 1120
Alkalinity Reserve, ml 0,1N HCl	13,7	ASTM D 1121
Water Content, % mas.	3,1	ASTM D 1123
antifreeze-water mixture with the volume ratio 1:1		
Freezing Point, °C	-36	ASTM D 3321
Freezing Point, °C	-37	ASTM D 1177
pH Value	8,05	ASTM D 1287

Antifreeze Mixing Table

INA Antifriz Al Super : water	Protection against Corrosion	Freezing Point	Protection against Boiling till
1 : 2	Full protection	-18 °C	104 °C
1 : 1,5		-25 °C	106 °C
1 : 1		-37 °C	108 °C

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.