

COA - ALCOFREEZE BASE

TEST	UNIT	TEST METHOD	SPECIFICATION	TYPICAL VALUE
Appearance	Visual	-	Clear & Bright	Clear & Bright
Density in vac. @ 20°C	g/ml	ASTM D-4052	Max. 0.820	0.8125
Water content	% m/m	ASTM E-1064	Max. 7.50	6.30
Water content	% v/v	ASTM D-1364	Max. 5.00	4.10
Ethanol before denaturation	% v/v	-	Min. 95	95.7
Mono-ethylene glycol	% m/m	GC (SGS SPI 282)	Min. 1.50	1.6
Methylethylketone	% m/m	GC (SGS SPI 282)	Min. 1.0	1.1
Isopropanol	% m/m	GC (SGS SPI 282)	Min. 1.0	1.1
Denatonium benzonate	Gr/hlap	Calculated by SGS	Min. 1.0	1.1
Anionic Tenside	% m/m	Calculated by SGS	Min. 0.1	0.15
Freezing point mixed with demineralised water, first crystals				
-concentrate			Max. -75	-82
-60% vol parts product	°C	ASTM D-1177 modified	Max. -38	-40
-50% vol parts product			Max. -31	-33
-33% vol parts product			Max. -18	-19
-25% vol parts product			Max. -10	-12
Flashpoint, PMCC	°C	ASTM D-93	Max. +17	+15
Flashpoint, PMCC				
-60% vol parts product	°C	ASTM D-93	Min. +22	+23
Water miscibility				
-50% vol parts product		ASTM D-1722	Pasess	Pasess
-33% vol parts product			Pasess	Pasess
-25% vol parts product			Pasess	Pasess
pH value				
-50% vol parts product		ASTM D-E70	Min. 7.0	7.3
Refractive index @ 20°C				
		ASTM D-1218	Min. 1.3630 Max. 1.3670	1.3651
Cleaning performance				
Max. sufficient cleaning		DEKRA		
-free sight	Cleaning cycle	QMA 2001.1405	Max. 11	9
- clean			Max. 11	10
Polycarbonate compatibility	Hella test	DEKRA QMA 2001.1428	No stress crackings	Pasess
Plastics compatibility @ room temperature and @ 50°C				
Polyethylene (PE)		DEKRA	No changes	No changes
Polypropylene (PP)		QMA 2001.1478	No changes	No changes
Polystyrene (PS)			No changes	No changes
Polymethylmethacrylate (PMMA)			No changes	No changes
Acrylonitril-Butadiene-Styrene (ABS)			No changes	No changes
Poloxymethylene (POM)			No changes	No changes
Polyvinylchloride (PVC)			No changes	No changes
Polyamide (PA)			No changes	No changes
Rubber compatibility		DEKRA QMA 2001.1425	No changes	No changes
Lacquer compatibility @ room temperature and @ 80°C				
Grey, metallic (OPEL, moonland grey)		DEKRA	No changes	No changes
Black, metallic (MB 189)		QMA 2001.1400	No changes	No changes
Dark blue, uni (VW Y5L)			No changes	No changes
Red, uni (BMW imolared II)			No changes	No changes