DEUSA INTERNATIONAL GmbH

Version 21.06.2017

Solution of Magnesium Chloride

Specification

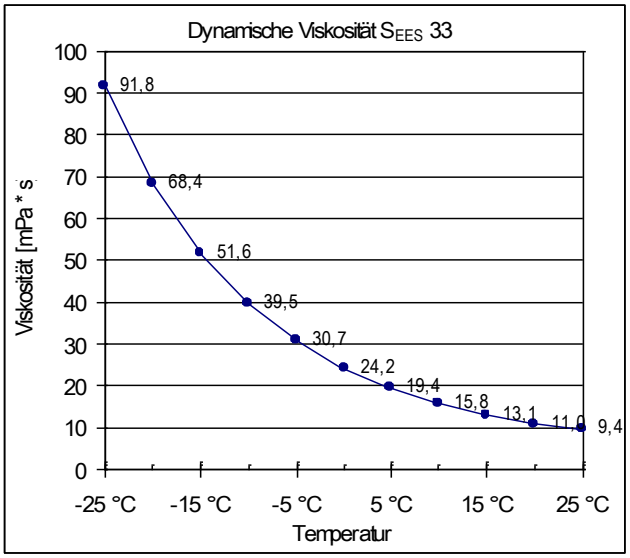
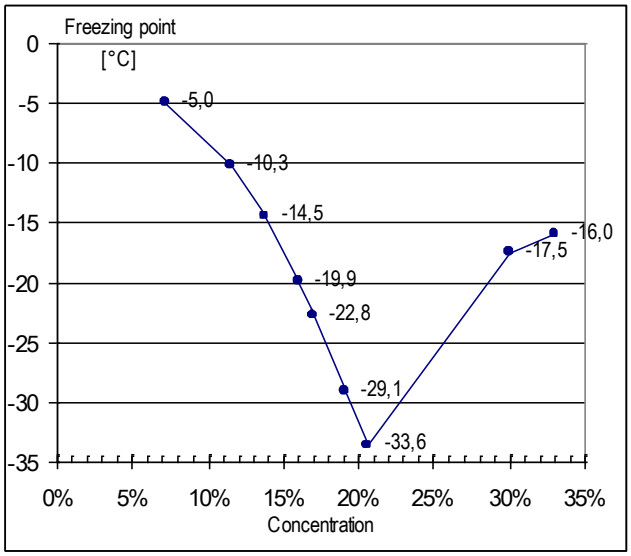
Specification **S_{EES} 33 %**
Trade name Brine of Magnesium chloride
Formula $MgCl_2$

Chemical composition	Average		Concentration range	
Magnesium chloride ($MgCl_2$)	435 g/l	33,0 %	32 %	34 %
Potassium chloride (KCl)	2,2 g/l	0,17 %	0,1 %	0,2 %
Sodium chloride (NaCl)	6,2 g/l	0,47 %	0,4 %	0,5 %
Magnesium sulphate ($MgSO_4$)	1,7 g/l	0,13 %	0,1 %	0,2 %
Calcium sulphate ($CaSO_4$)	0,4 g/l	0,03 %	0,02 %	0,1 %

Demands for Salt Solutions in Germany (DIN EN 16811-2)						
		Real value	Limit value		Real value	Limit value
Arsenic	(As)	< 0,1 mg/l	≤ 0,25 mg/l	Copper	(Cu)	< 0,2 mg/l	≤ 0,50 mg/l
Lead	(Pb)	< 0,4 mg/l	≤ 0,50 mg/l	Nickel	(Ni)	< 0,2 mg/l	≤ 0,50 mg/l
Cadmium	(Cd)	< 0,1 mg/l	≤ 0,20 mg/l	Mercury	(Hg)	< 0,01 mg/l	≤ 0,05 mg/l
Chrome, total	(Cr)	< 0,1 mg/l	≤ 0,50 mg/l	Zinc	(Zn)	< 1,0 mg/l	≤ 2,0 mg/l
				Iron	(Fe)	< 10 mg/l	not applicable

Physical Data

Density at 20 °C	Corresponds to	pH-value	Specific heat
1,32 g/cm³	35 °Be	5,5 – 7	3,36 MJ / m³*K

Properties

Additive	no
Colour	clear, yellowish / brownish
Solubility	Brine with water in all ratios miscible