DEUSA INTERNATIONAL GmbH

Version: 21.06.2017

Solution of Magnesium Chloride

Specification

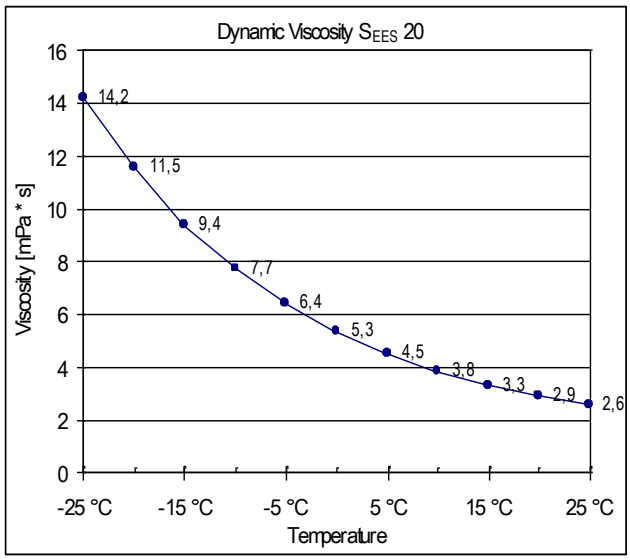
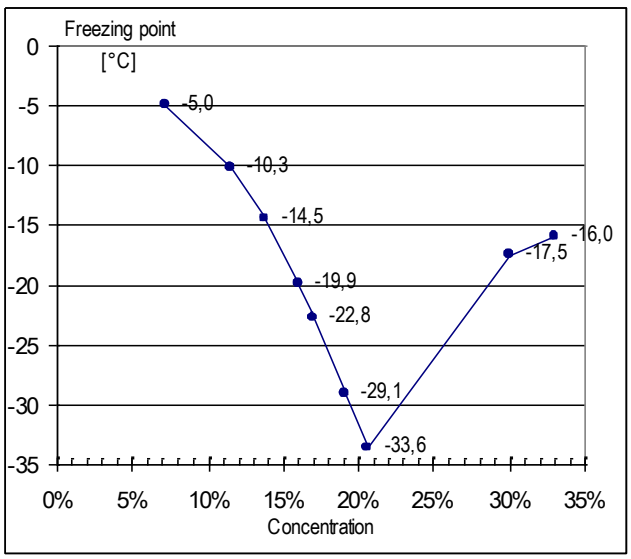
Specification	**S_{EES} 20 %**
Trade name	Brine of Magnesium chloride
Formula	$MgCl_2$

Chemical composition	Average		Concentration range	
Magnesium chloride ($MgCl_2$)	236 g/l	20,0 %	19 %	21 %
Potassium chloride (KCl)	1,2 g/l	0,1 %	0,05 %	0,15 %
Sodium chloride (NaCl)	3,3 g/l	0,28 %	0,2 %	0,30 %
Magnesium sulphate ($MgSO_4$)	0,9 g/l	0,08 %	0,08 %	0,10 %
Calcium sulphate ($CaSO_4$)	0,2 g/l	0,05 %	0,02 %	0,10 %

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
1,18 g/cm³	22 °Be	5,5 – 7	3,63 MJ / m³*K

Properties

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