



**PRODUCT SPECIFICATION
HYCOOL 20**

Document-ID HMS0126

ADDCON Nordic AS

Rev. date: 2014-05-13 No: 3

PRODUCT INFORMATION

PRODUCT DESCRIPTION : HYCOOL 20
MOLECULAR FORMULA : HCOOK
MANUFACTURER : ADDCON Nordic AS, PORSGRUNN NORWAY

PROPERTIES

	Typical	Min./max
Potassium formate	30 wt%	+/- 1%
Corrosion inhibitor		< 2%
Density at 20 °C	1194	+/- 8 kg/m ³
Flash point		Non flammable
Freezing point		Below - 20° C
pH at 25 °C	11,0	+/- 0,4

PHYSICAL DATE

Appearance clear, colourless, odourless, liquid. Composition of potassiumformate, deionized water and corrosion inhibitor. The quality management system for the production satisfies the requirements of ISO 9001.

Temp (°C)	Density (kg/m ³)	Specific heat-capacity (kJ/kgK)	Thermal conductivity (W/mK)	Dynamic viscosity (mPas (cP))	Kinematic viscosity (mm ² /s)
50	1181	3,07	0,59	1,1	0,9
45	1183	3,06	0,58	1,1	1,0
40	1185	3,05	0,58	1,2	1,0
35	1187	3,04	0,57	1,3	1,1
30	1189	3,02	0,57	1,5	1,2
25	1191	3,01	0,56	1,6	1,4
20	1194	3,00	0,56	1,8	1,5
15	1196	2,99	0,55	2,0	1,7
10	1198	2,98	0,54	2,3	1,9
5	1200	2,97	0,53	2,5	2,1
0	1202	2,96	0,52	2,9	2,4
-5	1204	2,94	0,51	3,3	2,7
-10	1206	2,93	0,50	3,8	3,2
-15	1209	2,92	0,49	4,5	3,7
-20	1211	2,91	0,48	5,3	4,4

Refractive index at 20 °C 1,364 -1,385
Thermal expansion coefficient $3\text{-}4 \cdot 10^4$ 1/K E.g.: approx. 1% thermal volume expansion between - 10 and 20 °C
Vapour pressure at 20 °C 1,3 – 2,0 kPa (water: approx. 2,3 kPa)
Electrical conductivity at 20 °C 210 – 240 mS/cm
Molecular weight: 84 (Potassium based)
Miscibility with water Complete

STANDARD PACKAGING

Tank trucks, ISO containers or 1000 liter IBC containers.

HANDLING AND STORAGE

HYCOOL is delivered ready to use and must not be diluted prior to use.
Product must be stored in tanks and containers compatible with potassium formate
Shelf life: 5 years from production date.

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QUALITY SYSTEM
DS/EN
ISO 9001