



**PRODUCT SPECIFICATION  
HYCOOL 45**

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**ADDCON Nordic AS**

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**PRODUCT INFORMATION**

PRODUCT DESCRIPTION : HYCOOL 45  
MOLECULAR FORMULA : HCOOK  
MANUFACTURER : ADDCON Nordic AS, PORSGRUNN NORWAY

**PROPERTIES**

	Typical	Min./max
Potassium formate	46,5 wt%	+/- 1%
Corrosion inhibitor		< 2%
Density at 20 °C	1318 kg/m <sup>3</sup>	+/- 8 kg/m <sup>3</sup>
Flash point		Non flammable
Freezing point		Below - 45° 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 <sup>3</sup> )	Specific heat-capacity (kj/kgK)	Thermal conductivity (W/mK)	Dynamic viscosity (mPas (cP))	Kinematic viscosity (mm <sup>2</sup> /s)
20	1318	2,62	0,51	2,4	1,8
15	1321	2,61	0,50	2,7	2,0
10	1323	2,60	0,49	3,0	2,3
5	1326	2,59	0,48	3,4	2,6
0	1329	2,58	0,48	4,0	3,0
-5	1331	2,57	0,47	4,6	3,5
-10	1334	2,56	0,46	5,5	4,1
-15	1337	2,54	0,45	6,6	4,9
-20	1339	2,53	0,44	8,1	6,0
-25	1342	2,52	0,43	10,1	7,5
-30	1345	2,51	0,42	12,8	9,6
-35	1347	2,50	0,42	16,8	12,5
-40	1350	2,49	0,41	22,8	16,9
-45	1353	2,47	0,40	32,0	23,7

Refractive index at 20 °C 1,364 -1,385  
Thermal expansion coefficient 3-4 \* 10<sup>4</sup> 1/K E.g.: approx. 1% thermal volume expansion between – 10 and 20 °C  
Vapour pressure 20 °C 1,3 – 2,0 kPa (water: approx. 2,3 kPa)  
Electrical conductivity 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.

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