



**PRODUCT SPECIFICATION  
HYCOOL 50**

Document-ID HMS0129

**ADDCON Nordic AS**

Rev. date: 2007-06-08 No: 1

**PRODUCT INFORMATION**

PRODUCT DESCRIPTION : HYCOOL 50  
MOLECULAR FORMULA : HCOOK  
MANUFACTURER : ADDCON Nordic AS, PORSGRUNN NORWAY

**PROPERTIES**

	Typical	Min./max
Potassium formate	50 wt%	+/- 1%
Corrosion inhibitor		< 2%
Density at 20 °C	1348 kg/ m <sup>3</sup>	+/- 8 kg/m <sup>3</sup>
Flash point		Non flammable
Freezing point		Below - 50° 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	1348	2,54	0,50	2,6	1,9
15	1351	2,53	0,49	3,0	2,2
10	1353	2,52	0,48	3,4	2,5
5	1356	2,51	0,47	3,9	2,9
0	1359	2,50	0,47	4,6	3,4
-5	1362	2,49	0,46	5,5	4,1
-10	1365	2,48	0,45	6,7	4,9
-15	1367	2,46	0,44	8,0	5,9
-20	1370	2,45	0,43	10,1	7,4
-25	1373	2,44	0,43	13,1	9,5
-30	1376	2,43	0,42	17,3	12,6
-35	1378	2,42	0,41	23,7	17,2
-40	1381	2,41	0,40	33,5	24,3
-45	1384	2,39	0,39	49,4	35,7
-50	1387	2,38	0,39	76,5	55,2

Refractive index at 20 °C 1,364 -1,385  
Thermal expansion coefficient  $3-4 \cdot 10^{-4} 1/K$  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 liters 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 potassiumformate.

To ADDCON' best knowledge, the information contained herein is accurate. ADDCON does not, however, undertake any warranty in this respect, nor does ADDCON grant any indemnity against any loss, damages, costs or expenses arising out of or resulting from the use of such information or the application, adopting or processing of the products

Postal address:	Visiting address:	Production:	HESQ fax No:	Registration No:
ADDCON Nordic AS P.O Box 2516 3908 Porsgrunn Norway	ADDCON Nordic AS Herøya Næringspark Arthur Bergbysveg 6 3936 Porsgrunn Norway	ADDCON Nordic AS B-85 Herøya industripark 3908 Porsgrunn Norway	+47 35 56 41 52	NO 984 178 182 MVA



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described herein or the use of other materials in conjunction with the products.

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