TECHNICAL DATA SHEET (TDS)

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 Product Name Description

Commercial:	Hydromx -PG
Chemical name:	Solution
Formula:	Solution
CAS No:	Solution
EINECS No:	Solution

1.2 Use of Product

A solution composed of various organic fluids in different proportion and used as 50% Hydromx -PG 50% tap water in closed circuit cooling a n d heating systems as a heat transfer fluid.

1.3 Manufacturer Information

Company name: HYDROMX Inc.

Address: 58-75 57th Road Maspeth 11378 NY, USA

Phone: +1.718.381.0351

1.4 Emergency Telephone Number

In case of emergency endangering health or the environment involving this product, Professionals should contact local National Poison Information Service Members of the Territory.

1.5 Standard Availability

Bulk

22.5 kg net drums.

1.000 kg net IBC Tanks.

1.6 Storage Conditions

Keep packaging unopened and undamaged.

Keep the product in a dry place away from humidity and sunlight.

1.7 Quality Management Standard

The Manufacturer of HYDROMX® has been certified to;

ISO 9001:2008	Quality Management System
ISO 14001:2004	Environmental Management System
ISO 22000:2005	Food Safety Management System - Requirements for any organization in the food chain
OHSAS 18001:2007	Occupational Health and Safety System

*Please visit our website at hydromx.com for the documents

2. PHYSICAL PROPERTIES (INDICATIVE VALUES)

In Table 2, the physical characteristics of the Hydromx -PG and the Hydromx - PG Solution (50%) with tap water* (50%), are shown.

Table 2. Physical properties of the Hydromx-PG (100%) and the Hydromx-PG Solution (50%) with tap water* (50%)

Hydromx Measurement Parameters	Method	Hydromx -PG (100%)	Hydromx -PG Solution with tap water* (50%) (Use of Product)
Colour (at 25°C)	ASTM D 1500	Blue	Blue
Odour (at 25° C)	-	Intrinsic	Intrinsic
pH (at 25° C)	ASTM D1287	8.20-8.80	8.20-8.80
Concentration (at 25°C)	Refractometric measurement	56,1%	32,4%
Total Suspended Solid (TSS)	TS 9546 EN 12880	<0.1	
Dissolved oxygen (mg/lt)	SM-4500 OG		8.46
Humidity Weight	TS 9546 EN 12880		%100
Freezing Point	Potential differences reading by multimeter, under application of liquid nitrogen.	-55°C	-43°C
Boiling Point	Heating in atmospheric conditions and, temperature measurement by thermocouple	150°C	105°C
Vapor Pressure (at 80°C)	ASTM d6378 (80°C)	RVPE : 37.9 kPA ASVP : 41.2 kPA	RVPE : 40.1 kPA, ASVP : 43.2 kPA
Density (g/cm^3)	Pycnometer (at 25°C)	1.055	1.039
Electrical Conductivity (City Water 401(µS))	Conductometer (Hanna Branded) (at 25°C)	58	408
Total Fe (ppm) (City Water: 0.069)	Atomic Absorbtion Spectrometer	0.245	0.0349
Dynamic Viscosity (Pa.s) (at 25°C)	Malvern Bohlin Gemini II Rotational Rheometer	$2.33\ 10^{-2}$	$4.27\ 10^{-3}$
Kinematic Viscosity (Pa.s) (at 20°C)	Dynamic viscosity divided by density	$2.21\ 10^{-2}$	$4.11\ 10^{-3}$

* The physical parameters of the tap water sample are as follows; **pH** 7.35, **electrical conductivity** 401(µS), **total Fe (ppm)** 0.069

NOTICE TO THE READER

Hydromx® provides complete protection against corrosion, calcification, and contamination. Categorized as non-toxic Nanofluid. Supplied in either premixed or concentrated forms. All guarantees and warranty conditions are voided upon shipment. Hydromx® explicitly disclaims all warranties, whether stated or implied, and makes no guarantees regarding any operational results from product use.

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