

# DEAROMATIZED ALIPHATIC HYDROCARBONS

## HYDROSEAL

Feb 2007

### TYPICAL VALUES

		HYDROSEAL							
PROPERTIES	UNITS	METHODS	G 232 H	G 240 H	G 250 H	G 3 H	G 400 H	G 290 H	G 300 H
DENSITY at 15°C	kg/m <sup>3</sup>	ASTM D 4052	817	815	815	814	815	823	822
SAYBOLT COLOUR	-	ASTM D 156	30	30	30	30	30	30	30
BOILING RANGE : INITIAL POINT	°C	ASTM D 86	237	251	257	278	304	284	295
BOILING RANGE : DRY POINT	°C		262	281	326	322	349	377	378
FLASH POINT Pensky -Martens	°C	ASTM D 93	103	114	120	136	158	146	151
TOTAL AROMATIC CONTENT	ppm	UV TOTAL IL 014	50	50	50	50	50	100	100
BENZENE CONTENT	ppm	ASTM D4367	0	0	0	0	0	0	0
ANILINE POINT	°C	ASTM D 611	79	84	91	92	101	103	102
VAPOUR PRESSURE at 20°C	kPa	calculated	0.002	0.0008	0.0003	0.0001	< 0.0001	< 0.0001	< 0.0001
VISCOSITY at 20 °C	mm <sup>2</sup> /s (cSt)	ASTM D 445	3.6	4.5	5.8	7	11	14	13
VISCOSITY at 40 °C	mm <sup>2</sup> /s (cSt)	ASTM D 445	2.4	2.8	3.6	4.1	6	7,6	7,1
POUR POINT	°C	ASTM D 97	-50	-40	-27	-19	-1	-42	-18

HYDROSEAL products are desulphurised and contain less than 2 ppm sulphur. They all give a negative result according to Doctor test (ASTM D 235).  
Copper strip corrosion test value is " 1 " in every case (ASTM D 130).

Data provided in this table is issued in good faith to the best of our knowledge, but no warranty, expressed or implied, is given.



**TOTAL**

# HYDROSEAL

A range developed in line with TOTAL's commitment to offer products with toxicological and ecotoxicological levels lower than regulatory requirements.

These products have a **very low aromatic content, typically less than 100 ppm.**

In addition they offer excellent **thermal stability**, are **UV resistant**, have a **low odour**, a **high flash point** and a **high viscosity**. They are also classified as **BIODEGRADABLE** against the OECD 301F standard.

Typical applications include :

- HYDROSEAL G 232 H :** A narrow cut fraction with a flash point of 103°C, used in degreasing, material lubrication and electro-discharge machining.
- HYDROSEAL G 240 H :** With a flash point of 112°C, mainly used in the Lubricants Industry.
- HYDROSEAL G 250 H :** A wide cut fraction with a flash point of 124°C, used for electric-discharge machining.
- HYDROSEAL G 3 H :** With a flash point of 135°C combined with a high viscosity this fluid is specifically recommended for use in the textile industry in the coating of fibres.
- HYDROSEAL G 400 H :** With a flash point of 158°C and a high viscosity this fluid has performance similar to that of the light oils traditionally used in the Lubricant Industry. It is specifically recommended for use in metal and textile processing.
- HYDROSEAL G 290 H :** With a viscosity higher than 7 this product is NOT labeled as R65. With a very low pourpoint of -42°C it is recommended especially for low viscosity base oils (cat. III), shock absorber oils or insulation oils.
- HYDROSEAL G 300 H :** With a viscosity higher than 7 this product is NOT labeled as R65. It can be used for metal working, textile industry, demoulding where a lower pourpoint is required and as alternative for low viscosity white oils.