



## Active components

Parameter	Method	Range
<b>Dye strength</b> Compared to standard	Spectrophotometer	95 – 105 %
<b>Wavelength of absorbance maxima</b>		531-537 nm

Standard product when measured at 20 mg/L in Toluene, in a 10 mm glass cell, has an absorbance of 0.465 au at approx. 534 nm.

## Physical parameters

Parameter	Method	Range
<b>Density at 15 °C</b>	ASTM D7042 modified	0.97 – 1.03kg/L
<b>Viscosity at 20 °C</b>	ASTM D7042 modified	< 150 cP
<b>Flash point</b>	IP 34/ ASTM D93	> 61 °C
<b>Water content</b>	Karl Fisher	≤ 0.2 %m/m
<b>Insoluble content</b>	Derived from IP 216 / ASTM D2276	≤ 0.2 %m/m
<b>Temperature of crystallisation</b>	-	< -25 °C

## Typical use and application

This product can be used for the marking of petroleum products, mineral oils, aliphatic and aromatic hydrocarbon solvents, and fuels. The product can be readily pumped, poured or metered directly from the container.

Due to the presence of aromatic solvent in this product, contact with natural rubber must be avoided. For seals and joints the use of PTFE, Viton or similar synthetic products are recommended.

### John Hogg Technical Solutions

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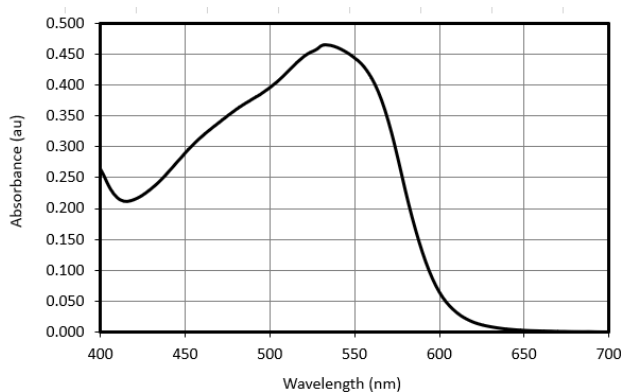
## Typical addition rate

This product is designed to be used at a dosage of 1 kg to greater than 50,000 L, or 20 mg/L. Actual dosage will depend upon customer requirements.

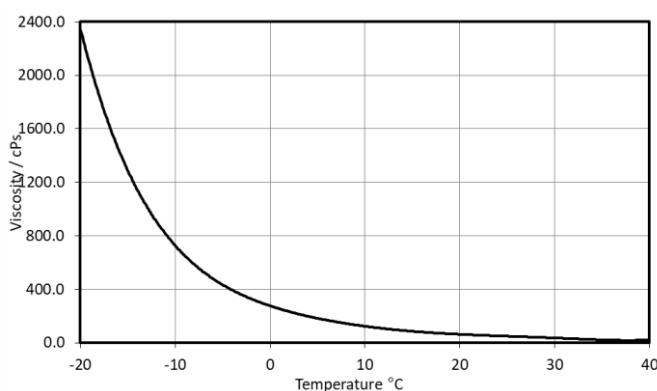
## Appearance

Dyeguard® Red GHF is a free-flowing dark red liquid with a distinct aromatic odour. It is not miscible with water.

## Spectral curve



## Typical viscosity curve



## Shelf life and storage condition

This product is stable for a minimum period of 2 years from the date of manufacture, when stored and handled between 5 °C and 40 °C.

The product should always be stored away from excessive heat sources, direct sunlight and ignition sources. Storage and handling of this product outside the above stated conditions may compromise the product quality.

If product containers are kept sealed, dry, and extreme temperatures are avoided the shelf life of the material is greater than 2 years. The container should be tightly closed when not in use to prevent solvent evaporation.

## Health & safety

Health and Safety data on this product is available and includes information on handling, storage etc.

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