



## Legislative components

When the product is dosed at 1 L in 30,000 L of fuel.

Parameter	Method	Range
ACCUTRACE™ PLUS fuel marker	Calculated	12.5 – 15.0 mg/L
Butoxybenzene	HPLC	9.5 – 11.4 mg/L
C.I Solvent Red 19	Spectrophotometer	4.1 – 4.9 mg/L

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## Physical parameters

Parameter	Method	Range
Density at 15 °C	ASTM D7042 modified	0.91 – 0.99 kg/L
Viscosity at 20 °C	ASTM D7042 modified	< 10 cP
Flash point	IP 34/ ASTM D93	> 61 °C
Water content	Karl Fisher	≤ 0.2 %m/m
Insoluble content	Derived from IP 216 / ASTM D2276	≤ 0.2 %m/m
Temperature of crystallisation	-	< -30 °C
Chloride content	Chloride analyser	< 50 mg/kg

## Typical use and application

This product can be used for the colouration 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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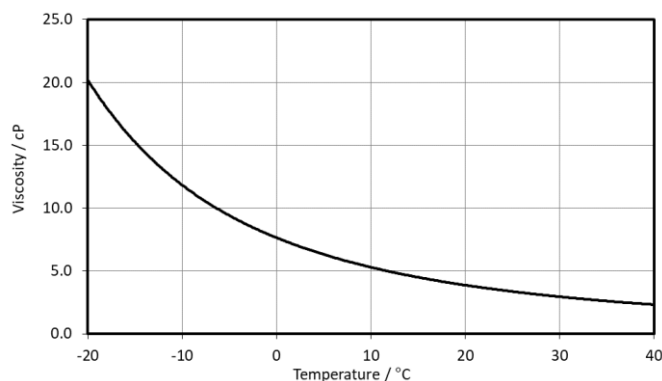
## Typical addition rate

This product is designed to be used at a minimum of 1 litre to 30,000 litres (33.33 mL/m<sup>3</sup>) and maximum of 1 litre to 27,000 litres (37 mL/m<sup>3</sup>) to mark fuel oils in accordance with national regulations.

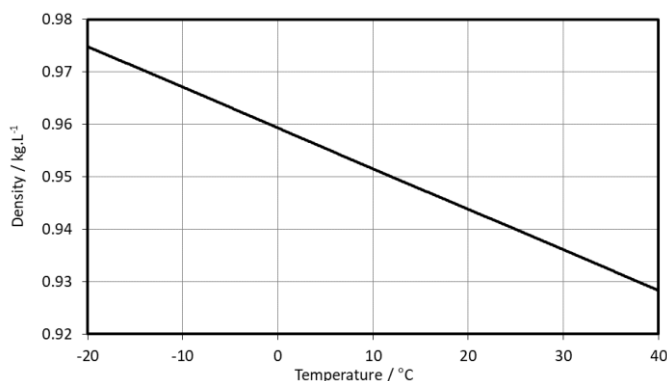
## Appearance

Dyeguard® MC Red 3034 is a free-flowing red liquid with a distinct aromatic odour. It is not miscible with water.

## Typical viscosity curve



## Typical density 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

Information on how to store and handle this product is included in the SDS which is available from John Hogg.

### Disclaimer

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