



Active components

Parameter	Method	Range
Dye strength Compared to standard	John Hogg proprietary	95 – 105 %
Wavelength of absorbance maxima	Spectrophotometer	647 - 653 nm
		449 – 455 nm

Physical parameters

Parameter	Method	Range
Density at 15 °C	ASTM D7042 modified	0.94 - 1.02 kg/L
Viscosity at 20 °C	ASTM D7042 modified	< 30 cPs
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	-	< -20 °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.

Typical addition rate

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

Appearance

Dyeguard® Green 990NF is a free-flowing green liquid with a distinct aromatic odour. It is not miscible with water.

John Hogg Technical Solutions

Mellors Road, Newbridge, Trafford Park, Manchester M17 1PB

T: +44 (0) 161 872 5611 **F:** +44 (0) 161 848 8206 **W:** www.johnhogg.co.uk **E:** info@johnhogg.co.uk

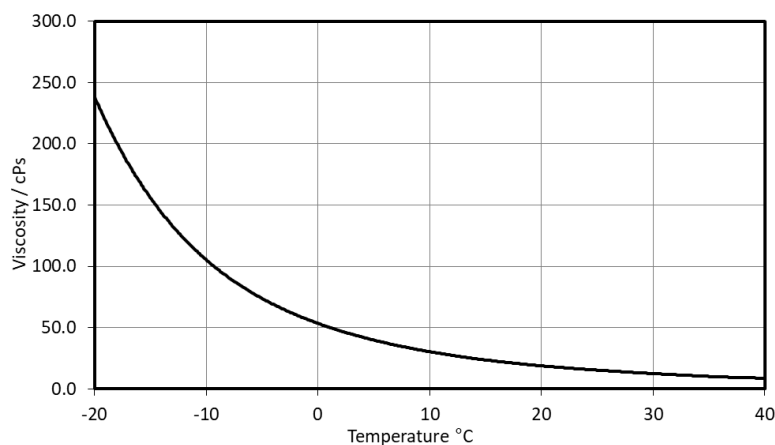


Health & safety

Dyeguard® Green 990NF has been specifically formulated to provide excellent solubility in functional fluids and be safer to handle without compromising on performance. These minimal handling hazards make Dyeguard® Green 990NF ideal for applications with high loading and user exposure.

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

Typical viscosity curve



Shelf life and storage condition

This product is stable for a minimum period of 1 year 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 1 year. The container should be tightly closed when not in use to prevent solvent evaporation.

DISCLAIMER

THE INFORMATION CONTAINED HEREIN IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND OF USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY FOLLOWING THESE SUGGESTIONS. NOTHING CONTAINED HEREIN IS TO BE CONSTRUED AS A RECOMMENDATION FOR USE IN VIOLATION OF ANY PATENTS OR OF APPLICABLE LAWS OR REGULATIONS. © 2019 JOHN HOGG TECHNICAL SOLUTIONS LTD, ALL RIGHTS RESERVED.

John Hogg Technical Solutions

Mellors Road, Newbridge, Trafford Park, Manchester M17 1PB

T: +44 (0) 161 872 5611 F: +44 (0) 161 848 8206 W: www.johnhogg.co.uk E: info@johnhogg.co.uk