

#### SPECIFICATION

##### ANALYSIS

##### RANGE

##### UNITS

**DYE STRENGTH** (compared to standard)

100 ± 5

%

**Absorbance wavelength maxima at 522 ± 3 nm**

Method of test: Spectrophotometer

Standard product when measured at 20 mg/L in toluene, in a 10 mm glass cell, has an absorbance of 0.480 au at approx. 522 nm.

**WATER CONTENT**

≤ 0.2

%m/m

Method of test: Karl Fischer.

**INSOLUBLES CONTENT**

≤ 0.2

%m/m

Method of test: derived from IP 216 / ASTM D2276

Above parameters to be quoted on a certificate of analysis if required.

#### TYPICAL PROPERTIES

PARAMETER	METHOD	RANGE	TYPICAL
DENSITY AT 15°C	ASTM D7042 modified	0.97 – 1.02 Kg/L	0.99 Kg/L
FLASH POINT	IP 34/ ASTM D93	>61°C	65°C
TEMPERATURE OF CRYSTALLISATION	-	< -30°C	-
VISCOSITY AT 20 °C	ASTM D7042 modified	< 100 cPs	40 cPs

The information in Typical Properties shown above is for guidance only and must not be considered a specification.

#### 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.



#### **TYPICAL ADDITION RATE:**

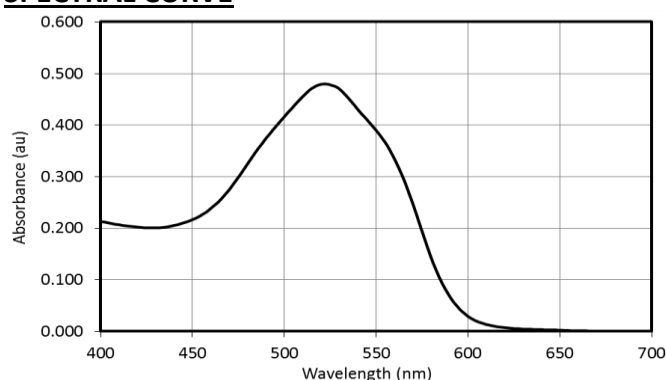
This product is designed to be used at a dosage of 1 kilo to greater than 50.000 litres, or 20 mg/l. Actual dosage will depend on the desired colour strength as well as the colour of the base material.

E.g., Fuels 5 to 20 ppm, Lubricants 50 to 200 ppm and Greases 500 to 2000 ppm

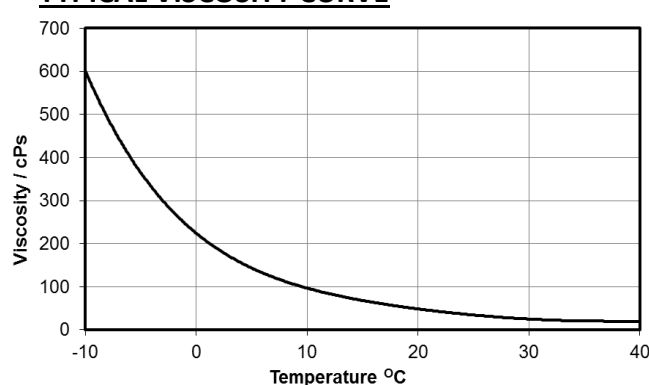
#### **APPEARANCE**

DYEGUARD® RED E 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 or ignition sources. Storage and handling of this product outside the above stated conditions may compromise the product quality.

If product containers are kept sealed and 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 in order 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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