

# Surface Insensitive SI 1000 Cyanoacrylate Adhesive

#### LIQUID PROPERTIES

Ester Base ethyl-2-

cyanoacrylate

Appearance Clear, colourless

Flashpoint >81°C
Density 1.05
Shelf Life 12 months,

unopened

Viscosity (Brookfield) @ 25°C 1000 cP

(Spindle 1, 20rpm)

## **POLYMER PROPERTIES**

 $\begin{array}{cccc} \text{Appearance} & \text{Clear, colourless} \\ \text{Softening Point} & \text{c. } 130^{\circ}\text{C} \\ \text{Refractive Index, } n_{\text{D}}^{20} & \text{1.45} \\ \text{Full Cure Time} & \text{24 hours} \\ \end{array}$ 

Solubility DMF, acetonitrile, acetone

#### **CURED PERFORMANCE**

## **Cure Speed**

Balsa / Balsa <5 seconds 90-180 seconds Oak / Oak Nitrile / Nitrile <5 seconds Neoprene / Neoprene <5 seconds EPDM / EPDM <5 seconds Steel / Steel 10-20 seconds PVC / PVC 3-10 seconds Polycarbonate / Polycarbonate 10-40 seconds

Shear Strength

Grit Blasted Steel >15 N/mm²
Etched Aluminium >11 N/mm²
Nitrile Rubber >10 N/mm²
Polycarbonate >12 N/mm²

Tensile Strength

Grit Blasted Steel>18 N/mm²Nitrile Rubber>5 N/mm²Neoprene Rubber>5 N/mm²EPDM Rubber>2.5 N/mm²

# **PRODUCT STORAGE**

Adhesive R&D cyanoacrylates should ideally be stored in original sealed containers until used. Containers should be stored between 10°C and 22°C; avoid exposure to strong light and heat sources. Refrigeration prolongs shelf life.

## **DISCLAIMER**

The data contained within this Technical Data Sheet are furnished for information only and are believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the user to determine the products suitability for use. Adhesive R&D and its distributors and agents accept no liability arising out of the use of this information or the products described herein.