



INDOLINE WS – Water Swellable FRP rod

Product Application:

INDOLINE WS di-electric water swellable FRP rod is designed to be used as strength member having inherent water swellable property. It eliminates the use of water swellable yarn on the FRP making it convenient during . The unique feature of *Indoline WS* is that there is no dust generation during cabling . It is most suited for loose tube, uni-tube, ribbon cable, & typically used as central or peripheral reinforcement in fiber optic cables.

Description

Indoline WS is manufactured using E-glass fiber with proprietary resin system and is coated with SAP material. It is available in hard coated surface, which allows easy handling. Hard coat provides very smooth surface. It is available in all sizes as our standard FRP rod.

Typical Product Characteristics:

Physical Property	Unit	Values	Test method
Density	gm/cm ³	1.9-2.15	Water immersion
Diameter Tolerance	mm	+/- 0.1	Micrometer
Ovality	%	< 5	Micrometer
Tensile Strength at break	kg/ mm ²	>140	ASTM D 3916
Elongation at break	%	>2.5	ASTM D 3916
Tensile Module	Kg/mm ²	>5000	ASTM D3916
Minimum bend @ 25° C	mm	<25D	ICPL/QS/009
Heat stress tolerance, , 80° C 24 Hrs	mm	50 D	ICPL/QS/008
Flexural Strength	Kg/mm ²	>70	ASTM D790
Flexural Modulus	Kg/mm ²	>5000	ASTM D790
Coefficient of Thermal Expansion	Cm/cm/°c	5.6X10 ⁻³	ASTM D 696
Water Absorption	%	>400	-
Increase in diameter after 1 min exposure in water	mm	0.256	-