



*Adding value to  
your formulations*

TECHNICAL DATA SHEET

## NAPTEL 5116 Telecom Cable Flooding Compound

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### Description

Naptel 5116 is a soft, low viscosity cable flooding compound that is specifically designed to protect against both moisture ingress and corrosion in various types of cable designs.

Naptel 5116 is formulated using high quality hydrocarbon base fluids and gelling agents. It provides optimum protection in service.

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### Applications

Naptel 5116 is designed for use in the manufacture of telecommunication cables. It prevents the ingress of moisture by filling all of the voids and interstices inside the cable, either between the polymer insulated

conductors and metal-plastic sheath in copper conductor telecommunication cables, or between the filled tubes in optical fiber telecommunication cables.

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### Main Benefits

Naptel 5116 offers excellent waterproofing properties, combined with good compatibility with other cable construction materials. The excellent electrical properties of Naptel 5116 allow cables to operate at their optimum performance.

Naptel 5116 has a proven track record in the waterproofing of telecommunication cables.

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### Storage

Extended storage of Naptel 5116 at temperatures in excess of 120°C may cause a deterioration of color and electrical properties.

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● ACETYLENE BLACK ● ALKYLATES ● BASE OILS (GROUP II AND GROUP III) ● CABLE FLOOD, FILL AND GELS ● DIELECTRIC FLUIDS ● PERFORMANCE ADDITIVES  
● POLYALPHAOLEFINS ● POLYBUTENES (STANDARD GRADES) ● REFRIGERATION FLUIDS ● SPECIALTY POLYISOBUTYLENE ● SULFONATES

## NAPTEL 5116

### Telecom Cable Flooding Compound

#### Typical Characteristics

Property	Method	Units	Value
Appearance	Visual	--	Amorphous Waxy Solid
Density at 25°C	ASTM D1475	g/cm <sup>3</sup>	0.89 Typical
Dielectric Dissipation Factor at 23±3°C (1 MHz)	ASTM D176	--	0.0025 Maximum
Dielectric Constant at 23±3°C (1 MHz)	ASTM D176	--	2.3 Maximum
Drop Melting Point	ASTM D127	°C	95 – 110
Ring & Ball Softening Point	ASTM E28	°C	85 Minimum
Brookfield Viscosity at 120°C (Themosel)*	ASTM D3236	cP	60 – 75
Cone Penetration at 25°C	ASTM D937	0.1 mm	50 – 60
Flash Point (COC)	ASTM D92	°C	180 Minimum
Color (Molten)	ASTM D1500	--	2.0 Maximum
Neutralization Value	ASTM D974	mg KOH/g	0.05 Maximum
Oxidation Induction Time at 190°C	ICEA S-84-608-1988	minutes	5 Minimum
Tombstone Slump Test, 24 hours at 80°C	BP Method DCLC 012	--	No slump or cracking

\* Spindle SC4-18

*The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.*

The above Naptel 5116 is a soft, low viscosity cable flooding

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