

Chase & Sons[®] A162A Chase BIH₂Ock[®] Strand Fill

DESCRIPTION Chase & Sons[®] A162A is a unique, flexible, semiconducting thermoplastic compound designed as a strand filling water blocking agent for stranded conductor power cables.

APPLICATION Chase BIH₂Ock[®] is hot melt pumped into a heated coating head where bare cable strands are pulled through during the stranding process. The coating fills the interstices between the wire strands. Once cured, the mastic becomes a solid barrier thus preventing ingress and longitudinal migration of moisture into the cable. The coating can also facilitate adhesion of moisture swell-able powder applied during stranding process, which can further inhibit moisture penetration.

Features	Benefits
No plasticizers, contaminants or hazardous materials	Safe to use in any MV underground cable or sub-sea application
Inert compound	Will not react with most other components in the cable
Exceeds ICEA T-31-425 standard for Water Penetration Resistance in Blocked Conductors	Prevents damage to cable insulation due to the ingress or longitudinal migration of water
Low thermal volumetric expansion through 200°C	Allows for precise application amount in the cable, which helps avoid over fill or under fill
Meets ICEA T-31-425 standards for Volume Resistivity Compatibility of Water Blocking Components	Fully compatible with most semiconducting components used as conductor or insulation shield such as EPR and XLPE
Meets ICEA T-25-425 standards for Stability of Volume Resistivity for Conducting Polymeric Components of Power Cables	Stable at temperatures up to the emergency operating temperature of the cable
Manufactured under an ISO9001 registered Quality Management System	Consistent performance batch to batch in your cable operation

TYPICAL PROPERTIES

Composition	Butyl rubber, Polybutene and inert semi conducting materials
Specific Gravity	1.17 g/cc
Resistivity	5000 Ω maximum
Melt Index	35-70 g/minute at 150°C
Weighted Heat Expansion	8.4% at 220°C
Viscosity	250,000 cps at 150°C
Color	Black
Packaging	Steel or fibercore 55 gallon (200 L) drums, 193 kg/drum

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APPLICATION GUIDELINES

- A162A is solid at room temperature. At 150°C it can be pumped readily into the coating head. The recommended pumping temperature is 150 to 180°C.
- The compound must first be melted in the drum by the use of a band, platen or immersion heating system.
- The melting temperature must be maintained from the drum to the applicator die through the use of heated hoses and piping.
- The cable manufacturer must determine the correct amount of A162A to be applied on the conductors. Over fill can cause shield and insulation deformation, while under fill can cause water penetration failure.
- Application of an additional water blocking powder is optional. However, A162A will help the powder adhere to the conductors and give better control over the amount of powder used in the cable.
- A162A is intended for cable applications where the long term temperature environment is <200°C.

Chase BH₂Ock[®] is a registered trademark and is manufactured by Chase Corporation.

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