

# BX1 Inhibitor Compound



Prysmian BX1 Inhibitor Compound is designed to prevent galvanic corrosion and to enhance connections in electrical joints. The compound is especially effective when used on copper to aluminium and aluminium to aluminium connections.

Prysmian Inhibitor Compound consists of a liquid base vehicle in which zinc particles are suspended.

The base vehicle is natural grease that prevents water and other contaminants from influencing the connections and prevents the formation of surface oxides. The zinc particles help to break down existing oxide on the conducting surfaces when those surfaces are brought together under pressure. These particles form electrical bridges, which improve the connection.

## Handling of Prysmian BX1 Compound

BX1 has a natural (petroleum) grease base. It is recommended for all bare outdoor applications because of its excellent weathering properties. This petroleum base reacts chemically with rubber insulation and to a lesser degree with polyethylene insulation. The result is swelling and a reduction in the tensile characteristics of the insulating material. If reasonable care is taken to remove any excess from a connection, the resulting effect on insulating material is negligible.

The compound, in bulk, is highly resistive; however, when applied as a thin film, with the aid of zinc particles, contact resistance of the joint is greatly decreased.

BX1 is supplied in 225g squeeze tube or 3kg containers.

Inhibitor Compounds should be used in all aluminium to aluminium and aluminium to copper joints. The contact surfaces of the elements to be joined should be thoroughly scratch brushed. Inhibitor Compounds should be liberally applied and any excess removed after securing the joint.

BICON-BX1 should be used for all applications where insulation will not be applied to the joint, such as substations and switchgear.

## Technical Specification:

Thickener	Aluminium Complex
Fluid Base	Petroleum
Appearance	Smooth grey paste
Dropping Point	196°C
Relative Density	1.59 g/cm <sup>3</sup>
Flash Point	221°C
Penetration	275 – 305 mm @ 25°C
Service Temperature Range	-18 to 150°C