

Ensitech Fluid Application Note 02

TB-02 Decontaminating Fluid for Stainless Steel

PURPOSE

TB-02 is a state of the art chemical, designed to remove heavy and persistent oils and greases from metal surfaces before welding, and allow post-weld cleaning with the TIG Brush system to produce a clean, clear welded surface.

BACKGROUND

Ensitech has found that some surface contamination, which is especially hard to remove with the TIG Brush system, consists of organic inclusions resulting from the high-temperature breakdown of cutting oils and industrial greases caused by the welding process. These oils and grease compounds decompose to their carbon bases and leave either dark inclusions in the weld, or organic substances that react with the chemicals and heat, during post-weld cleaning with the TIG Brush.

The residual adhesives and release aids that are added to steel surfaces as part of the film system to protect the metal surface in transport, can also be degraded upon welding and be incorporated in the weld and heat affected zone.

All these compounds are extremely hard to remove in the post-weld cleaning process, and therefore *removal before welding is recommended*. This creates a clean metal surface, free of oil, grease, adhesives and release aids, and promotes cleaner welds and surfaces that will be more effectively cleaned by the post-weld TIG Brush system.

CHEMISTRY

TB-02 Decontaminating Fluid is a combination of four of the latest non-toxic industrial solvents and a surfactant package that includes modern-technology wetters and biodegradable industrial detergents.

The fluid has been designed to remove all types of industrial cutting fluids and greases from metal surfaces, with a combination of solvency and emulsification to allow ease of rinsing with water to remove all contaminants.

SAFETY

All Ensitech products are developed to maximise worker safety. Due to the strength of its components, TB-02 is classified as flammable therefore, needs to be used with appropriate PPE and disposed of according to local legislation. Ensitech Safety Data Sheets (SDS) are created by the most reputable chemical safety organisation in Australia and should be consulted and well understood before using any Ensitech chemical. *TB-02 is classified as a dangerous good (DG).*



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APPLICATION

Please consult SDS before use and wear PPE as directed.

TB-02 Decontaminating Fluid can be wiped, sprayed or used in a bath to clean any contaminated metal surfaces. It is safe to use on all stainless steels, mild steel, aluminum, galvanized steel, titanium, brass, copper, etc.

Light contamination: The product can be diluted with water if contamination is light. Leave the TB-02 on the surface for periods proportional to the degree of contamination.

Heavy contamination: TB-02 can be used multiple times on material that is particularly heavily contaminated. Rinsing with water prior to welding is required.

DISPOSAL

For small amounts, absorb with sand, vermiculite or similar and dispose of to an appropriate landfill site. Contact the manufacturer/supplier for additional information if disposing of large quantities (if required). Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

Legislation

Dispose of accordance with relevant local legislation.

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