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Ensitech Fluid Application Note 01

TB-01 Pre-Weld Cleaning Fluid for Stainless Steel

PURPOSE

TB-01 was developed to remove all the typical pre-weld contaminants on stainless steel surfaces. It allows for a cleaner weld and provides a more efficient post welding cleaning passivation process.

BACKGROUND

Through the study of stainless steel weld cleaning by Ensitech's engineers and scientists, it was found that contamination on the steel surface prior to welding leads to certain types of contaminants being present in the weld and heat affected zone.

Due to the high heat of the welding process, these contaminants are present in metallic oxide forms or decomposed organic residues. The combination of these have been found to be more difficult to remove via the TIG Brush cleaning process. Therefore the removal of contaminants prior to welding is a sensible strategy to ensure firstly the best weld quality is obtained and then a quick and effective clean and passivation is achieved with the TIG Brush Weld Cleaning Process.

TB-01 was developed by Ensitech chemists after studying a wide range of typical pre weld contaminants such as mineral and synthetic based cutting fluids, greases and general industrial handling dusts, soils and process lubricants. A complex range of ingredients has been combined to remove these contaminants.

CHEMISTRY

PERFORMANCE: TB-01 Pre-Weld Cleaning Fluid is a non-dangerous (non-flammable, non-corrosive) formulation. The chemistry is a purpose made combination of proven alkaline cleaning agents, sequestering agents and latest technology environmentally friendly surfactants.

SAFETY: All Ensitech products are developed to maximise worker safety. TB-01 uses the powerful yet safe approach of latest technology surfactants rather than traditional hazardous solvents to clean the stainless steel surface. 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.

ENVIRONMENT: All ingredients are environmentally safe with either no environmental impact or biodegradable and the breakdown products also have no detrimental impact on the terrestrial or aquatic environments. TB-01 does not contain any alkyl phenol ethoxylates. As with all Ensitech fluids, all components of TB-01 are free from palm oil derivatives and are thereby is rainforest responsible.

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APPLICATION

Please consult the SDS before use and wear PPE as directed.

The fluid has been designed to remove all light oils and greases as well as any other Ensitech fluid residuals from stainless steel surfaces.

TB-01 can be wiped or sprayed onto the stainless steel surface. If the surface is heavily contaminated, wiping, rubbing and leaving for a couple of minutes will improve the amount of contamination removed. Rinse down with water or wipe with a water wet rag. Buff to a brilliant shine with a dry microfiber cloth. (If contamination is extremely heavy, the use of TB-02 is recommended).

DISPOSAL

TB-01 can be disposed to your council provided wastewater system via your sewer system without harm to the system or environment. TB-01 does not contain any components that would be a detriment. It is advised that water is used to wash the chemicals down the drains to prevent any pooling in s-bends or sumps which could react with other chemicals disposed of in these systems.

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