

Ensitech Fluid Selector Guide

PREMIUM RANGE of INNOVATIVE FLUIDS - NSF CERTIFIED

Ensitech has invested heavily in market-leading research and development to create a complete, premium range of innovative fluids for every aspect of stainless steel surface preparation, weld cleaning and finishing.

If you place a high priority on cleaning quality, speed, passivation and safety, use your TIG Brush with genuine Ensitech fluids. By following the recommended procedures of Ensitech's Surface Finishing System® you can be confident of superior results.

1. PRE-WELD CLEANING

Removal of contaminants prior to welding is a sensible strategy to ensure firstly that the best weld quality is obtained and then a quick and effective clean and passivation is achieved with the TIG Brush weld cleaning process.

TIG Brush® TB-01

TB-01 | PRE-WELD CLEANING FLUID Developed to remove residues such as light oils and greases on stainless steel surfaces. If contaminants are not removed, they can be included in the weld, leading to unsightly and difficult to remove inclusions in the weld. Using TB-01 first to remove these contaminants will ensure a cleaner weld and provide more efficient post weld cleaning and passivation.



TIG Brush® TB-02

TB-02 | PRE-WELD CLEANING FLUID A heavy duty decontaminant designed to remove persistent oils, adhesives and greases from metal surfaces before welding. A common hard to remove contaminant is residual adhesives and release aids that are added to steel surfaces as part of the film system to protect the metal surface in transport. Complete removal of such deposits before welding allows post-weld cleaning with the TIG Brush system to give a clean, clear, well passivated welded surface.



2. CHOOSING THE APPROPRIATE CLEANING FLUID

(Note: All genuine TIG Brush cleaning fluids simultaneously passivate the cleaned area.)

With a choice of four innovative cleaning fluids from chemically stringent to high-powered, genuine TIG Brush stainless steel cleaning fluids simultaneously clean and passivate with proven results.

TIG Brush® TB-21ND

TB-21ND | WELD CLEANING FLUID A light-duty, high performance fluid, which cleans, polishes and passivates stainless steel without the corrosive classification given to TB-25. Its Non-Dangerous rating makes it slightly easier to handle and economical on freight costs. For best results, neutralise with TB-40 after cleaning.



TIG Brush® TB-25

TB-25 | WELD CLEANING FLUID This high-powered premium stainless steel weld cleaning fluid is the strongest, fastest cleaning fluid in the range. With the highest quality components at high concentrations, TB-25 gives the user unequalled performance in cleaning, polishing and passivating on the harshest stainless steel welds. For best results, neutralise with TB-40 after cleaning.

* TB-25 is classified as a Dangerous Good (DG) and therefore a DG freight surcharge applies.



TIG Brush® TB-30ND

TB-30ND | WELD CLEANING FLUID A biodegradable stainless steel weld-cleaning fluid developed for use in facilities where corrosive chemicals are not permitted. Environmentally friendly, it cleans as effectively as TB-25, but does not polish. For best results, neutralise with TB-41 after cleaning.



TIG Brush® TB-31ND

TB-31ND | NEUTRAL WELD CLEANING FLUID When you have a need for added safety, this custom designed and patented fluid is pH neutral, fast-acting and needs no separate neutralisation process. It cleans and passivates without polishing, leaves no white frosting and does not alter high-polish stainless. It is especially suited to the needs of sensitive environments such as food and beverage, pharmaceutical and petrochemical industries. Environmentally safe TB-31ND allows maximum safety in use, handling, storage and transport.



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3. NEUTRALISING THE SURFACE

Before using any of the TIG Brush neutralising fluids, rinse off the cleaning fluid thoroughly with clean water. Then apply the appropriate neutralising fluid to remove any of the residual acidity. If your work has a tendency to form a white “frosting” on the metal surface, the TIG Brush neutralising products reduce this. As the white frosting can occur after many days, it is important to use your neutralising fluid as soon as possible after washing your work piece down with water.

TIG Brush TB-40

TB-40 | NEUTRALISING FLUID FOR TB-21ND AND TB-25 A non-dangerous (non-flammable, non-corrosive) formulation specifically developed for neutralisation of TB-21ND and TB-25 without the development of any toxic or corrosive products. TB-40 neutralising fluid is an important preventative step in the complete removal of any acidic chemicals on the work surface.



TIG Brush TB-41

TB-41 | NEUTRALISING FLUID FOR TB-30ND Also a non-dangerous (non-flammable, non-corrosive) formulation, developed for neutralising TB-30ND, TB-41 contains a range of fast acting, effective components that neutralise any residual acidic components within seconds. TB-41 contains unique components that remove the complex chemistry of TB-30ND.



4. FINISHING

Application of a finishing fluid will increase surface reflectability and prevent your perfect finished surfaces from marking through handling.

TIG Brush TB-50

TB-50 | FINISHING FLUID Cleans, brightens but also resists handling marks by leaving a molecular level layer on the surface of the stainless steel. Wipe or spray the cooled finished surface with TB-50, rinse down with water then buff with a microfiber cloth to achieve a brilliant shine and fingerprint resistance.



5. MARKING AND ETCHING

Be proud of your work. Ensitech’s marking and etching fluids can be used to permanently mark or etch stainless steel with branding, part numbers, barcodes etc. Ask for details of our Marking Kits and custom made marking/etching stencils.

TIG Brush TB-90

TB-90 | MARKING FLUID FOR STAINLESS STEEL Used with your TIG Brush with a specially engineered conductive head and stencils, TB-90 creates permanent sharp and dark lettering, logos, or any other design on your stainless steel. The process is user friendly, safe and fast with outstanding results within seconds.



TIG Brush TB-95

TB-95 | ETCHING FLUID FOR STAINLESS STEEL Used with your TIG Brush, a specially engineered conductive head and heat resistant stencils, TB-95 creates a sharp, clear etch for lettering, logos, or any other design on your stainless steel. The process is unequalled in speed, ease and permanency in adding an etch to stainless steel.



6. SAMPLE PACKS

 Sample fluid packs available on request

Ensitech Pty Ltd ABN 92 144 914 401
1/144 Old Bathurst Rd, Emu Plains NSW 2750 Australia
T +61 2 4735 7700 F +61 2 4735 7744
www.tigbrush.com

