



# TIG Brush TB-90

## Stainless Steel Printing Fluid

### PRODUCT OVERVIEW

TB-90 printing fluid lets you create a dark crisp edged print on most grades of Stainless Steel within seconds. Printing company logos or details straight onto the Stainless Steel surface is the perfect way to showcase your craftsmanship and make it stand out in the market.

When used together with the TIG Brush and Branding accessories, TB-90 will allow you to create long-lasting, indelible prints such as logos, icons, part identification, pipe flow direction, part assembly numbering, and safety signs onto your Stainless Steel surface; the options are only limited by your creativity.

Prints made using the TIG Brush and TB-90 do not alter the surface structure, and the print (or mark) cannot be easily removed. As this branding process does not create crevices, it also does not allow bacteria build-up to occur, making it a perfect solution for branding Stainless Steel parts and/or products in the food and beverage environments.

TB-90 is a non-dangerous, non-flammable fluid, minimising the risk to the worker's health and environment. TB-90 is also NSF certified and conforms to the requirements of the NSF Non-Food Compounds Registration Programme. The NSF mark is your assurance that Ensitech fluids have been tested and certified by one of the most respected independent certification organizations in existence today. See <https://www.nsf.org> for more information.

### SAFETY AND STORAGE

TB-90 has been developed to provide an enhanced level of user safety. The formulation does not contain hazardous solvents or heavy metals, and TB-90 is classified as a non-dangerous good for transport. It is recommended to use appropriate PPE while using any chemicals.

- This Fluid Application Guide should be read in conjunction with the Safety Data Sheet (SDS) and well understood before using any Ensitech chemical.
- Store in a cool dry area, out of direct sunlight and out of reach of children.
- Stored correctly and un-opened, TB-90 provides a shelf life of up to 12 months from the date of manufacture.
- TB-90 is classified as a Non-Dangerous Goods which has no restrictions as such.

## ENVIRONMENT

TB-90 is a water-based stainless steel printing fluid that is acidic and should be neutralized before disposal. TB-90 is not classified as an Environmental Hazard.

## STANDARD OPERATION PROCEDURE - S.O.P

The operator should read and understand the TB-90 Safety Data Sheet (SDS) before proceeding.

1. To print on stainless steel, attach the branding head to the adaptor and attach to the wand Handle Cable or PROPEL Torch (depending on the adaptor).
2. Secure a 50mm length of heatproof felt to the branding head using the rubber O-ring.
3. Set the TIG Brush to 'PRINT' mode and 'PROPEL - WIDE' power settings.
4. Secure the branding stencil to the clean stainless steel workpiece using water-proof tape, ensuring a tight, flat application.
5. Dip the branding head into the printing fluid, ensuring the felt is completely wet. When starting with new felt, extra soaking time should be allowed.
6. Using consistent and light pressure, rub the branding head over the yellow printable area of the stencil in slow motion, making sure you extend slightly past the edge of the image. Continue for approximately 15-20 seconds. Allow extra time for larger stencils, making sure you have covered the whole yellow printable area.
7. Remove the stencil and wash with clean water. Finish off with TB-50 finishing fluid after rinsing for a bright, fingerprint-resistant finish.

**Tip:** Evenly rub the branding head over the entire printable area of the stencil in one direction, then work back over the image in the opposite direction for an even result. Do not allow the felt to dry when branding, re-dip as required to keep the felt wet.

**Care:** Rinse the stencil after use with clean, warm water and gently rub the yellow area to make sure there are no residual fluid, dust or metal filings. Lay flat to dry naturally and store it between two clean paper sheets. The felt may be re-used several times, rinse after use, using the same method as above.

## DISPOSAL

**Important:** Refer to SDS for full disposal details and dispose of in accordance with relevant local legislation.

Do not mix TB-90 in sinks or drains with bleach, drain cleaner or other chemicals.

For small quantities that have been neutralized, dilute with clean water to municipal drains at a ratio of 10:1 water to chemical to prevent any pooling in S-bends or sumps which could react with other chemicals that may be present in these systems.