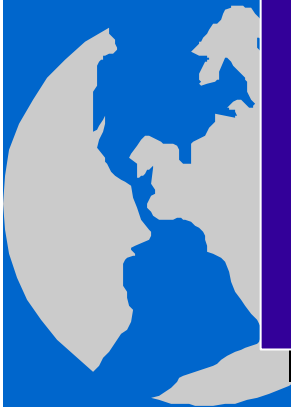




Stainless Steel Treatment Chemicals



•
•
•

Overview

- Chemical treatment of stainless steel is a vital component of the fabrication process
- Pickling of stainless steel following welding leaves a visually and chemically clean surface, which allows a greater chance of the stainless steel forming a passive chrome oxide film.

•
•
•

Overview

- S-Weld Clean is an advanced high adhesion pickling gel suitable for all grades of stainless steel, including many high performance alloys and titanium
- A range of stainless steel treatment products is now available to maximise surface finish and corrosion resistance

•
•
•

Pickling of stainless steel

- For the removal of weld scale, heat tint, ferric oxides, chlorides and other surface contamination
- Leaves the weld and heat affected zone chemically and visually clean
- Aids the auto-passivation process
- Confers greater corrosion protection than grinding or sandblasting
- Non residual, cost effective

•
•
•

Passivation of stainless steel

- Passivation is the process whereby chrome oxide is regenerated in an oxidising environment
- Chrome oxide is depleted by grinding, sandblasting, polishing, pickling, surface damage and contact with corrosive substances

•
•
•

Passivation of stainless steel

- Failure of stainless steel to become or remain passive leads to corrosion
- Corrosion can occur due to the presence of embedded iron oxides and iron chlorides, other surface contamination, or following mechanical surface treatment methods such as grinding, polishing etc.

•
•
•

Passivation of stainless steel

- Surface passivation treatment restores the corrosion resistant properties of stainless steel
- Auto-passivation in air may not occur and does not always ensure corrosion resistance
- Chemical passivation with a nitric acid based passivator enhances the restoration of the chrome oxide passive film

•
•
•

S-Weld Clean

- High technology pickling gel
- Outperforms leading European brands
- Superior gel adhesion technology
- Can even be used on vertical or overhead surfaces
- Stronger and faster acting
- Removal of weld scale & iron contamination which initiates corrosion

-
-
-

S-Weld Clean

- Superior packaging & customer information
- Free acid resistant application brush

•
•
•

Specifications

- Contains :
 - Nitric Acid 30% and Hydrofluoric Acid 5%
- ASTM 380a compliant formulation
- S-Weld Clean is a high adhesion gel, not a paste
- Pack sizes available 1kg, 2.5kg, 5kg & 25kg

• • • • • • • •

-
-
-

Other Pickling Products

- Weldbrite spray pickle
- Steelbright pickling solution

•
•
•

Weldbrite Spray Pickle

- High technology gel
- ASTM 380a compliant formulation
- Gel adhesion allows uniform coverage of tanks and vessels with greater safety and reduces run-off and wastage
- Strong and fast acting
- Removal of weld scale & iron contamination which initiates corrosion
- Pack sizes available 20L, 200L

•
•
•

Steelbright Pickling Solution

- For immersion treatment in pickling bath
- Strong and fast acting
- Removal of weld scale & iron contamination which initiates corrosion
- ASTM 380a compliant formulation
- Water dilutable & rinsable
- Pack sizes available 5L, 20L, 200L

-
-
-

Chemical treatment in fabrication

- Surface preparation, cleaning and / or degreasing
- Weld spatter protection
- Descaling / pickling
- Environmental compliance - waste disposal
- Passivation i.e. corrosion protection
- Cleaning of finished product

•
•
•

Other Stainless Steel Products

- S-Weld Passivator - passivating gel
- S-Weld Neutralizer - neutralising solution
- S-Weld Brite Wash - deoxidising solution & cleaner
- Prosol - cleaner & polish

•
•
•

S-Weld Passivator

- Strong oxidising agent to passivate stainless steel following pickling, polishing, sandblasting or grinding during fabrication
- Restores chrome oxide passive layer
- Enhances corrosion resistance of stainless steel
- Easy to apply gel, or solution

•
•
•

S-Weld Passivator

- Essential following grinding or sandblasting of welds when pickling is not performed
- Use in maintenance procedures following corrosion removal from polishing or chemical deoxidisation
- Pack sizes available 2.5kg

•
•
•

S-Weld Brite Wash

- For removal of embedded iron contaminants and corrosion on stainless steel & polished aluminium
- Quickly removes corrosion products
- Removes organic residues such as light oil, grease finger marks
- Essential as a final cleaner after fabrication or installation

•
•
•

S-Weld Brite Wash

- Will not affect surface finish
- Also effective for mild steel
- Final rust remover and cleaner before priming mild steel
- Readily miscible with water at all concentrations
- Pack sizes available 500ml ready to use trigger pack, 5L, 20L & 200L

•
•
•

S-Weld Neutralizer

- Alkaline solution for neutralising acidic pickling waste prior to discharge to sewer
- Built-in acid / base indicator
- Bright pink solution goes clear at neutralisation point
- Reduces hazard of pickling waste
- Aids trade waste compliance

•
•
•

S-Weld Neutralizer

- Can be used as a diagnostic tool to test for the presence of residual pickling gel or solution, especially in corners, crevices and hard to clean areas.
- An aid to worker safety
- Pack sizes available 5L, 20L, 200L

•
•
•

Prosol

- Specialised stainless steel & aluminium pre-weld cleaner
- Replacement for thinners, kerosene, toluene, MEK and other hazardous solvents
- Excellent for architectural market, removing finger prints from hand rails, elevator doors etc

•
•
•

Prosol

- Non-toxic, non-flammable , worker safe, biodegradable
- Slow evaporation makes Prosol economical
- Excellent for final clean-up & parts washing
- Conforms to Boeing D6-17487 specification for aircraft degreasing
- Pack sizes available 300gm aerosol or bulk 4L, 20L, 200L drums