



## TECHNICAL DATA SHEET

# THERMALBRITE

### *Thixotropic Pickling Paste for Stainless Steel*

### *Conforms to ASTM a380-06 Standard Practice for Cleaning, Descaling and Passivation of Stainless Steel Parts, Equipment, and Systems*

#### DESCRIPTION

Thermalbrite utilises innovative Australian technology for the formulation of a high adhesion stainless steel pickling gel for pickling applications. It is used to remove the black oxide marks or burn scale left during welding of stainless steel.

This product conforms to the international standard, ASTM A380-06. The standard practice for cleaning, descaling & passivation of stainless steel parts, equipment & systems.

After use of Thermalbrite the weld area should have the same look as the rest of the steel being used. Thermalbrite leaves a clean professionally finished stainless steel weld area, free from contamination.

#### PHYSICAL PROPERTIES

Boiling Point	:	N/A
Specific Gravity	:	1.15
Water Solubility	:	Miscible
pH (as supplied)	:	< 1.0
Appearance & Colour	:	Opaque, white acidic gel, pungent acidic odour

#### BENEFITS

- \* Quick acting
- \* One step treatment
- \* Completely water rinseable
- \* Convenient size packs - no wastage
- \* Can be used on vertical surfaces

#### DIRECTIONS FOR USE

1. Clean the weld area carefully using a stainless-steel brush.
2. Roll or shake the drum of Thermalbrite if possible for 30 seconds prior to opening the container to ensure a smooth consistency, especially if the product has not been used for a long time.
3. After welding ensure the area to be pickled has sufficient time to cool below 40°C.
4. Apply the Thermalbrite gel to the area to be cleaned, using the brush provided or with an acid resistant spray pump and applicator. **DO NOT PICKLE IN DIRECT SUNLIGHT.**
5. Application times may vary depending on ambient temperature, the grade of stainless, surface finish or the method of welding. On a hot rolled surface the pickling time may increase by 50%. MIG welds may require longer pickling times than those obtained using covered electrodes. Allow the pickling gel or solution sufficient time to react with the surface. With high ambient temperatures or when longer pickling times are required it may be necessary to repeat the process. Should the product dry on the surface wash down, dry and repeat the process.



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**DO NOT OVER PICKLE - The best results are obtained by continuous visual inspection of the surface.**

- To clean, rinse the surface with clean potable water. The best results are obtained by the use of high pressure water jet or similar. Ensure the pickle residues are not left on the surface.

Grade	Pickling Time	Temperature °C
200, 300, 400 Series	5 - 30 minutes	21 - 50
Duplex Grades	60 - 90 minutes	21 - 50
Super Duplex	80 - 120 minutes	21 - 50

**Note:**

- Wear full body protection, breathing apparatus, gloves and goggles; avoid spillage or splashes. Do not allow to come in contact with the body. If skin contact occurs, apply Calcium Gluconate gel immediately
- Avoid contact with eyes or breathing any vapour.
- Replace the lid on the container tightly and store upright in a cool dry area away from direct sunlight. Do not store or use below 5°C.
- Thermalbrite has a recommended shelf life, in good storage conditions, of twelve (12) months.

### PACKAGE SIZES

Thermalbrite is available in 20kg or 230kg drums - smaller 1.0kg, 2.5kg jars are available for brush application where required.

### SAFETY PRECAUTIONS

**Caution:** This product contains Hydrofluoric Acid and Nitric Acid and is corrosive and toxic.

Wear appropriate clothing, i.e. full body protection, breathing apparatus, face shield, gloves, boots etc.

Do not use Thermalbrite near open flames or cutting torches, since a hazardous flammable gas can be generated. Keep lid tightly closed when not in use. Store in a cool, dry spot away from direct sunlight. Keep out of reach of children. If used in poorly ventilated areas, use a respirator equipped with a chlorine type filter.

If you have to neutralise the Thermalbrite residue this can be done using S-Weld Neutralizer neutralising solution. Add S-Weld Neutralizer neutralising solution until the colour remains a pale pink colour.

Refer to the Callington Haven Thermalbrite Material Safety Data sheet for further safety information. A copy of this sheet can be obtained on request from our office.