

## ***GELINOX***

### **1. PROPERTIES**

GELINOX is supplied in a transparent gel form, ready for use. Its pickling action ensures the rapid and reliable removal of oxides, discolouration and surface rust from welded joints.

GELINOX is thixotropic and can, therefore, be applied thickly if required to the surface being pickled (the surface can be put in vertical position). The paste does not dry out and can be easily washed off the surface, even after a lengthy time of application.

### **2. FIELD OF APPLICATION**

DELMET GELINOX is formulated to remove oxide scale and heat discolouration resulting from the welding or heat treatment of corrosion resistant steels (Stainless Steel), Nickel, Nickel Alloys and Copper/Nickel Alloys.

### **3. PRE-TREATMENT**

Any oil or grease on the surface will impair the pickling action thus the areas to be treated should be cleaned with our **FS 10** or solvent degreasing agent prior to the application of GELINOX

### **4. USING THE PRODUCT**

GELINOX should be shaken or stirred thoroughly before applying by brush to the area to be pickled. If the surface is big, we can use GELINOX SPRAY; spray it with special pumps. Suitable acid resistant brushes and pumps, are available from DELMET. The length of time for the gel to take effect will depend upon the degree of scale, but is generally around 30-60 minutes.

The pickling action is seen to be completed when the gel applied to the weld turns a shade of green.

The gel can be removed by washing down with cold water, preferably under high pressure. Should some traces of scale remain, this can be readily removed by means of


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impianti   
lavorazioni   
prodotti chimici 

a stainless steel wire brush or by re-application of gel. After thorough rinsing with water, the pickled surfaces should appear matt-grey and clean.

Subsequential passivating is not generally required. Usage is very economical: 1 Kg. of GELINOX will pickle a weld run approximately 90 metres long. This is equivalent to more than 160 metres per litre of gel (300 – 450 g/m<sup>2</sup>).

## **5. POST-TREATMENT**

A clean stainless steel surface will generate a protective oxide layer in uncontaminated free air. The formation of this “passive layer” can be accelerated by chemically passivating. DELMET PASSIVATING products are available in solution and paste forms details of which are available on request.

## **6. EFFLUENT TREATMENT**

Rinse waters will contain acid from the GELINOX and should be neutralised using calcium hydroxide (1 part slaked lime to 10 parts water)

The sludge resulting from neutralisation will contain metal ions and should be allowed to settle out before the water is discharged to sewer.

DELMET will be pleased to advise you further on effluent treatment or, alternatively, supply you with suitable effluent treatment plant.

## **7. SAFETY PRECAUTIONS**

GELINOX contains Ammonium Difluoride and Nitric acids and the precautions normally taken when working with acidic solutions should be observed with this product. Protective clothing such as rubber gloves and goggles should be worn. When working in confined or poorly ventilated environments respiratory equipment should be used. More comprehensive safety details are available on the appropriate DELMET safety data sheet.

## **PLEASE NOTE**

GELINOX is one of many products we offer for carrying out cleaning, pickling and passivating of stainless steels and related metals.

We also undertake such treatments in our Gorgonzola works; at a fabricator’s premises, or in-situ when installation has already been completed.

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