

DESCALINOX FAST TPF

THE FASTER AND SAFER STAINLESS STEEL PICKLING



In order to increase the pickling speed, to reduce the treatment times, and, at the same time, to reduce the danger in use, it has been designed a new pickling product for stainless steel, marked under the name **DESCALINOX FAST TPF**.

DESCALINOX FAST TPF represents the evolution of a series of "environmentally friendly" pickling products free of nitric acid developed and patented by Condoroil in 1989.

The general characteristics of the pickling solutions which use **DESCALINOX FAST TPF**, therefore, do not differ from those made with the previous products which are still actual: **DESCALINOX P 13**, **P14**, and **P17** whose peculiarity is the higher pickling speed achieved with the addition of particular additives that act as activators to the etching of the oxides.

The reduction of pickling times allow to process very difficult materials (i.g. Duplex, Superduplex, alloys for electrodes, ecc) in more acceptable times and to deal with production growth without modifying the pickling plant.

Considering the toxicity classification according to the CLP (reg. 1272/2008)

DESCALINOX FAST TPF Concentrate:

Cat. TOX 2 max 50 ton of storage

DESCALINOX FAST TPF in the solution :

Cat. TOX 3 No limits of storage



In this picture a raw superduplex tube and the same tube after 2 hours pickling with Descalinox P13 and with Descalinox Fast.

Furthermore the formula::

- is nitric and hydrochloric acid free with low concentration of hydrofluoric acid
- performs in a wide range of iron concentration (from 25 to 100 g/l of dissolved iron)
- is not corrosive towards the matrix and welding
- Grants a high quality surface appearance
- Is regenerable with acid retardation resins (Resibed units) and/or decationizers (Dynarec unit)
- It is classified in cat. TOX 2 and its solutions in cat. TOX 3

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DESCALINOX P22

THE NEW WAY IN ELECTROLYTICAL PICKLING



For the electrolytical pickling of Stainless steel the most used solutions are sulphuric acid based.

Sulphuric acid is a very cheap product of large availability.

Nevertheless, today the use of sulphuric acid based formulation, like DESCALINOX P23, started to show limits because of its corrosivity.

Today electrolytic pickling finds more and more application directly on the production lines for continuous pickling operation (see ELETTRA units by CONDOROIL STAINLESS), and operators, not specifically trained, work in very close contact with the solutions.

Even if sulphuric acid is not toxic, its corrosivity is seen as an high potential danger for the workers and a strong demand for non hazardous products for the operator is increasingly required.

For these cases, the new developed and potential product, DESCALINOX P22, is the solution.

DESCALINOX P22 has an organic acid based formulation that is no more considered corrosive but only irritating.

The use of DESCALINOX P22 practically eliminates any risk for the workers and only very basic safety rules have to be implemented.

TRADITIONAL CHEMICAL PICKLING

(NITRO-HYDROFLUORIC)



NITRIC FREE LOW HF CHEMICAL PICKLING

(DESCALINOX TPF SERIE)



ELECTROLYTICAL SULPHURIC ACID BASED

(DESCALINOX P23)



NEW DESCALINOX P22 ELECTROLYTICAL PICKLING



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