

DESCALINOX TPF

TOXIC PLUS FREE



The Evolution of "environmentally friendly" DESCALINOX SERIES.

The first pickling agents Tox 2 according to the new classification which allow to be outside of the Seveso rule without penalizing the pickling activity.

DESCALINOX TPF	Concentrate	TOX 2 max 50 Ton
DESCALINOX TPF	In the solution	TOX 3 No limits

Toxicity Classification of Hydrofluoric Acid - CLP (Reg. 1272/2008)

Category TOX 1 - LETHAL (max. 5 tons - 2012/18/UE Directive)
conc. > 9,9% di HF

Category TOX 2 - LETHAL (max 50 ton - 2012/18/UE Directive)
conc. > 2,4% < 9,9% di HF

Category TOX 3 - TOXIC (No limits-2012/18/UE Directive)
conc. > 0,5% < 2,4% di HF

Category TOX 4 - HARMFUL No limits-2012/18/UE Directive)
conc. < 0,5% di HF

New classification

Toxicity Classification of Hydrofluoric Acid - DSD (67/548/CEE)

HIGHLY TOXIC (max 5 tons)
conc. > 7% di HF

TOXIC (max 50 tons)
conc. > 1% < 7% di HF

HARMFUL (No limits)
conc. < 1% di HF

Old classification

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RESIBED

ACID RETARDATION FOR PICKLING BATHS REGENERATION

Resibed Regeneration Unit operation is based on the capacity of proper ionic retardation resins to slow down the flow of the mineral acids, which are present in a pickling solution, while the metallic salts are let passing through.

The absorption process is reversible therefore the acid absorbed by the resin can be removed by a simple passage in water in order to be recovered in the pickling baths.

The system does not require any chemical reagent. Energetic consumption is limited to the functioning of pumps of very low deliveries.

This technique, which has been introduced in the stainless steel pickling field since a long time, allows to keep the working baths with a constant metal content, avoiding to drain and to purify the free acids which are partially recovered



DYNAREC

DECATIONIZER FOR PICKLING ACIDS REGENERATION

DYNAREC units allow to eliminate in continuous the dissolved metals in moderate acidity pickling solutions using proper decationizer resins. .

Typical applications is the recovery of costly acids such as phosphoric and hydrofluoric acids used in treating metal surfaces, (mainly aluminium and stainless steel).

DYNAREC unit allows to replace a costly acid, which is recovered, by a cheap acid which is, instead, consumed .



ADVANTAGES

PRODUCTIVITY

- Constant pickling activity
- No remaking of the baths
- Better quality of pickling

ECONOMIC

- Savings in pickling products
- Savings in sludge disposal
- Savings in labor