

TI 80 Pickling agent

Physical-Chemical Properties

Physical State	: Acid liquid
pH at 1% Concentration	: 2,1 +/- 0,5
Chemical Composition	: Mixture of inorganic acids and surfactants
Free of	: Nitric, hydrochloric, hydrofluoric, fluoboric and sulphuric acids

Typical Application

TI 80 pickling agent is designed for pickling of welded and/or annealed titanium and nickel alloys parts.

Characteristics

Product is free of volatile acids such as nitric, hydrochloric and hydrofluoric acids, and therefore there are no emissions of harmful exhalations. No suction is required on the tank.

Moreover, being free of fluoboric acid, the problem related to borates in the purification step is also avoided.

At the normal working conditions, basic metal is not etched by the product which limits its action to the oxide dissolution. The typical problem of hydrogen embrittlement is so avoided.

Since basic metal is not etched, over pickling will not occur.

Application conditions

Use Concentration on titanium alloys	: 50%
Catalyst concentration	: 10%
Use concentration on nickel alloys	: 35%
Catalyst concentration	: 5%
Temperature	: from room temperature up to 60°C max.
Plants	: immersion and spray.
Equipment material	: anti-acid