

NICKEL STRIPPER FOR BRASS

NICKEL STRIPPER FOR BRASS is mixed with dil. Sulphuric used for fast stripping of Nickel from Copper base alloys. NICKEL STRIPPER FOR BRASS – acid mixture are not suitable for stripping nickel from zinc base, aluminum and iron alloys. The above acid mixture chemically dissolves nickel and no electric current is required.

Composition

NICKEL STRIPPER FOR BRASS	100-110 g/l.
Conc.Sulphuric Acid (Sp.Gr.) (1.84)	60-70 ml.
Water	to make 1 ltr.

Preparation

Fill $\frac{3}{4}$ of the Tank with water and add slowly the required volume of sulphuric acid with intermittent stirring. Then add the calculated amount of NICKEL STRIPPER FOR BRASS powder with stirring and make up the level by adding more water.

Stripping Rate

The stripping rate varies with the temperature of the solution, the concentration of acid, the concentration of NICKEL STRIPPER FOR BRASS and the age of the stripping solution. The rate of stripping for a new solution is as follows:

Temperature	Rate of dissolution
70 – 80 °C	0.005” – 0.006 per hour.

The recommended temperature range for stripping is from 75-90° C. Copper is not attacked by the stripping solution, but Brass and steel are slightly attacked at higher temperature. The maximum operating temperature for brass is normally 80°C.

Operation

This work to be stripped, if greasy or oily, should be cleaned in solvent or alkaline soak cleaner, so that the stripping solution will wet it uniformly.

The articles to be stripped are simply in the stripping solution and after stripping completes, the articles turn dark and this can be removed by immersing in 20 g/l sodium cyanide solution. Before dipping in the cyanide solution, the work should be rinsed thoroughly with running water. The stripping rate can be accelerated by agitation of the work in the solution or agitation by air or mechanical.

Equipment

The tank for holding NICKEL STRIPPER FOR BRASS solution may be Lead or Plastic lined mild steel and for heating stainless steel Electric immersion heaters can be used.

Maintenance

By working acid and stripping salt are consumed and periodic additions of NICKEL STRIPPER FOR BRASS (20 to 40 g/l.) will maintain the stripping rate. Acid concentration can be maintained by titration. The sludge deposited in the tank should be removed periodically in order to increase the life of the solution.