

TECHNICAL DATA SHEET

CHEMSTRIP– 105 S

CHEMICAL STRIPPER FOR DISSOLVING NICKEL FROM COPPER AND COPPER ALLOYS

CHEMSTRIP - 105 S is a neutral compound for immersion stripping of nickel from copper and Copper base alloys. CHEMSTRIP- 105 S acid mixtures are not suitable for stripping nickel from Zinc base, aluminium, or iron alloys.

OPERATING CONDITION:

CHEMSTRIP- N	120 gms
Water	950 cc
Sulphuric acid, 66°Be	50 cc
Temperature	70-95°C

MAKE-UP:

Fill the tank about $\frac{3}{4}$ full with after and add sulphuric acid. After the acid has been mixed, add CHEMSTRIP - 105 S with stirring. Then add water to make up the final volume.

TEMPERATURE AND STRIPPING RATE:

The rate of stripping is very rapid but it varies with the temperature of the solution, the concentration of acid, the concentration of CHEMSTRIP - 105 S and the age of the stripping solution. The stripping rate drops linearly with the amount of nickel dissolved. The rate of stripping for a new solution is as follows:

Temperature	Rate of dissolution
70°C	0.004 per hour
80°C	0.007 per hour

The recommended temperature range for stripping is from 80-95°C. if any attack is noticed on the base metal, the stripping temperature should be lowered. Attack is not

experienced on the pure copper but for brass and nickel silver, dissolution of the zinc from the alloy may occur if the operating temperature is too high. The maximum temperature for brass is normally 80°C when sulphuric acid is used.

OPERATION:

If the work to be stripped is greasy or oily, clean first in alkaline soak cleaner or solvent .

First clean the part before stripping into the stripping solution. After the action has ceased there will be thin dark deposit on the work which can be removed by dipping into 20-30 gm/l sodium cyanide at room temperature.

Agitation of the work in stripping solution by air or mechanical will greatly increase stripping rate.

Rinse thoroughly after stripping.

EQUIPMENT:

Polypropylene, lead lined, rubber lined polypropylene lined M.S. tanks are recommended.

CAUTION:

While the CHEMSTRIP - 105 S powder is itself not harmful, it is used in strongly acidic solutions. In case of contact with eyes flush with ample of water and seek medical attention.

DISCLAIMER:

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