



ISO 9001:2008

Deluxe

Meproché

TECHNICAL BULLETIN

MEPROCHE N- 485 NITROCARBURIZING SALT

Nitriding process is suitable for components/parts which have been finally machined and a hard case is to be imparted on them without distortions.

This is achieved by formation of hard nitrides of iron on the top surfaces. However the layer of nitrides insulate further penetrations and therefore the case depth achievable is low and the process time is long. Hence nitrocarburizing salts are used to increase case depth, which consists of carbides and nitrides

MEPROCHE N-485 is a specially designed salt for nitrocarburizing components by salt-bath technique, which is much cheaper than gas-nitriding equipments.

Method of use of MEPROCHE N-485:-

1. The bath should be melted and aged for four hours before use.
2. Only cleaned, degreased and preheated components should be placed in the bath.
3. The bath should be analysed periodically and necessary salt should be added to maintain total cyanates at 35 to 45% level and cyanide at 10%.
4. Oxidation products formed from time to time should be removed. The nitriding is to take place at 570°C and the ideal temperature is 570°C.
5. It is advisable to keep the bath covered when not in use; it increases the life of bath.
6. Generally titanium crucibles or titanium plated crucibles give the best results.
7. The time of carbonitriding cycle depends upon the case depth required and the ratio of job surface to salt weight.
8. Time of nitrocarburizing can be curtailed if a slow current of air is passed through the molten salt. The bath temperature should not be allowed to go below 500°C, at this temperature, if reached, heating should be accelerated to elevate the temperature.

For more details please contact to:-

M/s. Deluxe Metal Processing Chemicals Pvt.Ltd.

404, Sai Chamber, 365 /69, Narsi Natha Street,

Mumbai - 400 009.

Tel:-2344 31 48 / 66312982 /65290511

Fax: (91-22)2342 96 63

Email: pcb@deluxemetal.com

<http://www.deluxemetal.com>