

POLIGRAT-PRODUCT INFORMATION

BrassChem

Chemical Polishing and Deburring Process for Brass



Properties and Effect

BrassChem is an innovative and highly efficient industrial process for the deburring, smoothing and brightening of brass. The degree of brightness achieved is strongly influenced by the concentration of lead in the alloy. A low lead content (MS 60/53) achieves best brightness.

When compared to conventional processes Brass-Chem is free from nitric and sulphuric acid and does not generate any toxic gases during the processing.

Wide processing window:

- short polishing time: 1 – 3 min.
- process temperature: 30 – 35 °C
- consistent results and process parameters right from the start up to a upper metal loading of approx. 50 g metal/l

The highly effective smoothing working of Brass-Chem achieves an excellent brightness which is in most cases comparable to an electro polished surfaces. The total metal removed, to achieve a similar brightness, is considerably than, other chemical brightening processes.

Economics

The low amount of metal removal to achieve optimum brightness significantly reduces the electrolyte consumption, when compared to conventional processes.

This leads to additional cost savings especially in respect to waste handling and disposal.

Application

BrassChem is an immersion process. The parts to be treated can be processed either on jigs, in baskets or as bulk goods in rotary barrels.

The process sequence consists of two process steps:

- In the first process step (BrassChem V 100) the parts are cleaned free from oxidation.
- In a second process step (BrassChem G 100) the surface is smoothed and polished.

BrassChem and the rinse water from the process are acidic and contain the dissolved metal. They need to be treated and disposed according to the statutory laws and regulations.



Supply

Concentrate:

- BrassChem V 100 SK G 100 SK
- Single-use canister 10 kg (8.2 l) 15 kg (9.9 l)
- Single-use canister 35 kg (29.2 l) 45 kg (29.7 l)

Mixing for 100 l ready to use electrolyte:

- BrassChem V 100
DI water 87 l
hydrogen peroxide (35%) 2 l
sulphuric acid (96%) 9 l
BrassChem V 100 SK 2 l
- BrassChem G 100
DI water 78 l
hydrogen peroxide (35%) 20 l
BrassChem G 100 SK 2 l

Your Advantages

- very economics
- rapid gloss creation
- low processing temperature
- no creation of toxic processing gases