

BrazeCoat® M – coating with carbide and filler metal mats

With the BrazeCoat® M-Process, flexible mats, consisting of carbide powders as well as of filler metal powders (e.g. NiCrBSi), bonded by a polymer binder, are cut into the exact shape and are placed onto the substrate, the filler metal layer on top of the carbide layer. After preparation the assembly is heat treated in a furnace process at approx. 1100 °C (2010 °F) under protective atmosphere. The carbide layer, thereby, is infiltrated by the molten filler metal and in the same operation joined to the substrate to be coated. In the BrazeCoat M-process, the thickness of the resulting layers can be adjusted between 0.7 mm (0.028 in.) and 3 mm (0.12 in.) or even more. The final layer is near final contour with edge.



Microstructure of BrazeCoat® M (V=500:1)



Typical applications for BrazeCoat M-layers can be found where heavy abrasive wear or even a combination of abrasive and corrosive wear appears. Slurry pump housings, mixer blades and extruder parts, all coated by the BrazeCoat M-process have resulted in significantly longer component lifetime under actual service conditions.

Interested?

Talk to us about the possibilities of letting your wearing parts be coated by us or carrying out the coatings yourself according to the BrazeCoat® method.

