

Iron Based P/M Structural Parts

Iron Copper and Copper Steel

Copper Powder is admixed with Iron Powder, with or without graphite, to increase strength, hardness and wear resistance. MPIF Standard 35 describes grades containing from 1.5% to 10.5% Copper. **ACuPowder** provides a selection of Copper Powder grades varying in apparent density and particle size:

Grade	A.D. (g/cc)	Nominal Mesh	- 325 (%)	Comments
264	2.6	- 100	45	Lower AD, Coarser
165	2.7	- 140	58	Lower AD, Coarser
8082	2.9	- 140	65	Higher AD, Finer
201	2.8	- 200	90	Finer Particle Size
301	3.1	- 325	98	Finest Particle Size

Iron Nickel and Nickel Steel

Nickel Powder is admixed with Iron Powder, with or without graphite, to increase toughness, tensile properties and hardenability. MPIF Standard 35 describes grades containing from 1% to 5.5% Nickel.

ACuPowder provides Inco's **Carbonyl Nickel Powders**, AIC's EBS (zinc free) **Lubricants** and Asbury's **Graphite Powder** to the P/M markets. Please refer to the special bulletins for these products.

Copper Infiltrant for P/M Iron and Steel

Infiltration fills the pores of a compact with molten copper or alloy during sintering. ACuPowder produces two families of Copper Powder Based Infiltrants. We are also pleased to offer Ultra Wrought Copper Infiltrant. Please refer to to our special bulletin on Infiltrants for a complete description of these products.

The information contained herein is presented as a guide for your investigation and verification. Products mentioned are sold without warranty, expressed or implied, that the goods shall be fit for any particular purpose of or use by the purchaser. Purchasers must conduct their own tests to determine the suitability for their intended purpose. We assume no liability for infringement of any patent resulting from the application of this information. By reason of lack of knowledge as to specific uses, no representation or warranty is made regarding the safety of these products or materials under the Federal Food, Drug and Cosmetics Act.

ISO 9001

*From industry pioneer to industry leader,
We are innovation in motion*

ISO 14001

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We have been part of your lives for over 90 years