

Iron Base P/M Structural Parts

IRON COPPER & 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/cm ³)	Nominal Mesh	-325 M (%)	Comments
Copper				
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

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.

IRON NICKEL & 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.

Nickel Powders

ACuPowder provides Inco's carbonyl nickel powders to the P/M markets. Please refer to the special nickel powders bulletins.

Lubricants

ACuPowder provides Shamrock's EBS (zinc free) lubricants to the P/M markets. Please refer to the special EBS Lubricant bulletin.

Graphite

ACuPowder provides Asbury's graphite powder to the P/M markets. Please refer to the special graphite bulletin.

COPPER INFILTRANT FOR P/M IRON & STEEL

Infiltration fills the interconnected pores of a compact with molten copper or alloy during sintering.

ACuPowder provides two families of Copper Base Infiltrants. Please refer to our special bulletin on Infiltrants, describing them in detail.

ISO 9002
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*From industry pioneer to industry leader,
we are innovation in motion*

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We have been part of your lives for over 80 years