



Product Description

Highly pure, very fine 200 mesh irregular bronze metal powder suitable for a range of applications including resin-casting (cold casting), decorative coatings and powder metallurgy.

How to use

Use In Cold-Casting / Resin Casting

Add bronze powder to castings resins such as polyurethane Fast-Cast resins, polyesters or epoxies for an authentic metallic bronze appearance and feel.

Added to the whole of the resin mix, bronze powder will increase the density of a casting (making it feel heavier) as well as its thermal conductivity (making it feel colder). Alternatively, it can be added in higher ratios to only a thin surface layer by slush-casting or rotational-moulding, giving a very metallic surface to a casting that can then be back-filled with unfilled resin.

Mix Ratios

A ratio of at least 50% bronze powder (by weight) would be required to result in a significantly metallic appearance. Higher ratios, up to the limit of pourability, will yield a more impressive metallic appearance and feel.

When adding metallic powders to polyester or vinylester resin systems it is important to catalyse the resin prior to adding the metal powder so as to avoid any adverse reaction (rapid oxidation) of the metal powder by the catalyst.

Such oxidation or other adverse reactions are unlikely to occur with polyurethane or epoxy resins but it may still be a good idea to mix the resin and hardeners together before adding the metal powder.

Revealing the Appearance

After casting, the metallic appearance will not be clear or vivid because the metal particles will be obscured behind a thin layer of resin.

To reveal the metallic appearance, the casting can be rubbed with an abrasive pad or wire-wool.

Patinating (Rusting)

After exposing bronze particles on the surface of a casting, the bronze on the surface will patina (rust) in the same way that a conventional bronze product would which means that it will quickly take on the distinctive dull turquoise colour of patinated bronze.

Specification

Particle Size Distribution - Sieve

Mesh	Size (µm)	Min - Max
+100	+150	Trace
+200	+75	0.0 - 4.0%
-200	-75	Balance

Chemical Analysis

Element	Result (%)
Tin	10.0 - 12.0
Copper	Balance

Physical Properties

Property	Unit	Result
Colour	-	Metallic Brown
Format	-	Powder
Particle Size	Mesh	200

Disclaimer

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

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