



Product Description

Highly pure, very fine 200 mesh irregular brass 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 brass powder to castings resins such as polyurethane Fast-Cast resins, polyesters or epoxies for an authentic metallic brass appearance and feel.

Added to the whole of the resin mix, brass 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% brass 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 brass particles on the surface of a casting, the brass on the surface will patina (rust) in the same way that a conventional brass product would which means that it will quickly take on the distinctive dull turquoise colour of patinated brass.

Specification

Particle Size Distribution - Sieve

Mesh	Size (µm)	Min - Max
+100	+106	0.0%
+200	+75	2.0%
+325	+45	Balance
-325	-45	85.0

Chemical Analysis

Element	Result (%)
Copper	68.0 - 72.0
Zinc	28.0 - 32.0

Physical Properties

Property	Unit	Result
Colour	-	Gold
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.

Our technical advice, whether verbal or in writing, is given in good faith but Easy Composites Ltd gives no warranty; express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product for their particular application and circumstances.

Easy Composites Ltd shall be in no way responsible for the proper use and service of the product, nor for the safeguarding of personnel or property, all of which is the duty of the user. Any information or suggestions are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Before using any of our products, users should familiarise themselves with the relevant technical and safety datasheets provided by Easy Composites Ltd.

Easy Composites Ltd

Unit 39, Park Hall Business Village,
Stoke on Trent, Staffordshire, ST3 5XA
United Kingdom.
Web www.easycomposites.co.uk

Easy Composites EU B.V. (EU Customers)

Beneluxbaan 16,
Rijen, 5121 DC
Netherlands
Web www.easycomposites.eu