



## Technical Data Sheet

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# Bronze IR350

### Characteristics

- Water atomised metal powders of a copper tin alloy.
- Particle shape : Irregular

### Applications

- Suitable for all cold-cast metal applications.
- Excellent for creating thixotropic mould coatings in polyester resin; due to its physical structure the material forms a slurry which when applied to the mould tends to cling to the corners and mould seam lines. Following polishing or removal of seam lines the quality of the metal coating is maintained.

### Particle Size Distribution

BSS Mesh 240 Microns >63 = 0%  
BSS Mesh 350 Microns >45 = 3%  
BSS Mesh -350 Microns <45 = 97%

### Chemical Analysis

Tin 9% (Min) 11% (Max)  
Phosphorus 0.20% (Max)  
Oxygen 0.15% (Max)  
Apparent Density : Approx 3.3 g/cm<sup>3</sup>

### Processing

Bronze IR350 may be used by simply dusting the mould or by adding the material to the casting resin to form a gel-coat on the mould. (See Iron Filler Powder Data Sheet). Generally metal powders are added at user discretion, every project is different and can be added to each specific application to give the desired metal effect. As an approximate guide the minimum ratio would be a 1:1 mix for the metal powders, for every 100g of metal powder to every 100g of resin, depending on casting requirements this could be increased up to 4 parts metal powder to 1 part resin by weight. The examples given are to be used only as a guide and user must always perform small tests to ensure a ratio that suits their requirements. The ratio will also be altered depending on the resin being used.

### Storage

Store in tightly closed containers in a cool dry environment. Store away from combustible materials or oxidising agents.

### Safety Information

Comprehensive instructions are given in the corresponding material safety data sheets.

***MB Fibreglass believes that the information above is an accurate description of the typical characteristics and/or uses of the product or products, but it is your responsibility to thoroughly test the product in its specific application to determine performance, efficacy and safety.***