

# 8444 40% Bronze FF Material Data Sheet

## Product Information

8444, 40% Bronze FF

A non-oxidising 40% bronze filled PTFE compound.

## Features

Supplied as free flow powder.

Bronze is an alloy of copper and tin.

The non-oxidising alloy provides a consistent finished product appearance which is dark brown in colour.

Avoid use with Hydrofluoric Acid (HF) and strong alkalis.

Not suited to electrical applications.

Bronze is also attacked by certain chemicals.

## Benefits

Free flow powder allows for easier processing when moulding thin walled cylinders.

Bronze filled PTFE provides:

- Excellent creep resistance
- Excellent wear resistance
- Strong thermal dissipation characteristics
- Strong electrical dissipation characteristics

## Typical Applications

- Piston rings
- Bushes - Bearings
- Linear bearings and guides
- Wear bands and strips
- Seals - Hydraulic systems

## Delivery Program

This product is sealed in two-layer plastic bags inside a rigid 25kg drum. It should be stored at 22°C to 25°C for 24 hours before processing.

This grade is available as:

- Free flow
- Non free flow available under product code 8144

## Physical Properties

Property	Value	Unit
Colour	Dark Brown	
Bulk Density	800	g/l
Specific Gravity	3.10	g/cm <sup>3</sup>
Hardness	65	Shore D
Tensile Strength	18	MPa
Elongation	200	%
Shrinkage	2.5	%

