



KRN ALLOYS PVT. LTD.

PRODUCT DATA SHEET

Grade: KBR 30

Product Type: Atomized Brass Powder
(Brass 70/30)

Category: Atomized Non-Ferrous Powder

1. PRODUCT DESCRIPTION

Brass 70/30 is an atomized copper-zinc alloy powder developed for powder metallurgy and industrial applications requiring a balance of strength, ductility, and cost efficiency.

The grade is suitable for general engineering applications and powder systems where moderate mechanical performance and economical material selection are important.

2. KEY CHARACTERISTICS

| Property | Typical Value |
|--------------------------|------------------|
| Apparent Density | 2.8 – 3.2 g/cc |
| Flow Rate (Hall) | 22 – 32 sec/50g |
| Alloy Composition | Cu ~70%, Zn ~30% |
| Oxygen (O ₂) | ≤ 0.30 % |

👉 (Balanced alloy — good flow + moderate strength)

3. CHEMICAL COMPOSITION (%)

| Element | Typical (%) |
|-------------|---|
| Cu (Copper) | ~70 |
| Zn (Zinc) | ~30 |
| O (Oxygen) | ≤ 0.30 |
| Others | Controlled within standard manufacturing limits |

4. PHYSICAL PROPERTIES

| Property | Description |
|------------------|-----------------------|
| Particle Shape | Irregular |
| Production Route | Atomized alloy powder |
| Compressibility | Good |
| Strength | Moderate |
| Ductility | Good |

5. PARTICLE SIZE DISTRIBUTION (PSD)

| Fraction | Typical Distribution (%) |
|---------------------|--------------------------|
| +100 mesh (>150 µm) | 0 – 2 |
| -100 +200 mesh | 10 – 20 |
| -200 +325 mesh | 45 – 60 |
| -325 mesh (<45 µm) | 15 – 25 |

* Particle size distribution is controlled to ensure consistent compaction behavior and stable blending performance.

6. TYPICAL APPLICATIONS

- General powder metallurgy components
- Engineering parts
- Industrial blends
- Cost-sensitive alloy applications

7. ADVANTAGES

- Balanced mechanical properties
- Good ductility and workability
- Cost-effective alloy system
- Stable compaction and sintering behavior
- Suitable for a wide range of industrial applications

8. PROCESSING GUIDELINES

- Suitable for PM compaction and sintering
- Compatible with standard alloying and lubrication systems
- Recommended for general-purpose applications

9. PACKAGING & SUPPLY

- **Standard packing:** 25 kg bags / jumbo bags
- Custom packaging available upon request

10. DISCLAIMER

Values are typical and may vary depending on processing conditions and application requirements. This information is intended as a general guide and does not constitute a strict specification guarantee. Users are advised to evaluate the material for their specific intended use.