



KRN ALLOYS PVT. LTD.

PRODUCT DATA SHEET

Grade: KBR 40

Product Type: Atomized Brass Powder
(Brass 60/40)

Category: Atomized Non-Ferrous Powder

1. PRODUCT DESCRIPTION

Brass 60/40 is an atomized copper-zinc alloy powder developed for industrial and powder metallurgy applications where cost efficiency and acceptable mechanical performance are key requirements.

The grade is suitable for applications where higher zinc content provides economic advantage while maintaining workable processing characteristics.

2. KEY CHARACTERISTICS

Property	Typical Value
Apparent Density	2.7 – 3.1 g/cc
Flow Rate (Hall)	24 – 34 sec/50g
Alloy Composition	Cu ~60%, Zn ~40%
Oxygen (O ₂)	≤ 0.30 %

👉 (Higher Zn → slightly lower density & strength — correct behavior)

4. PHYSICAL PROPERTIES

Property	Description
Particle Shape	Irregular
Production Route	Atomized alloy powder
Compressibility	Moderate
Strength	Moderate to lower vs 70/30
Ductility	Moderate

6. TYPICAL APPLICATIONS

- Cost-sensitive powder metallurgy components
- Industrial alloy blends
- General engineering applications
- Non-critical structural parts

8. PROCESSING GUIDELINES

- Suitable for general PM compaction and sintering
- Recommended for applications where cost-performance balance is required
- Compatible with standard processing systems

3. CHEMICAL COMPOSITION (%)

Element	Typical (%)
Cu (Copper)	~60
Zn (Zinc)	~40
O (Oxygen)	≤ 0.30
Others	Controlled within standard manufacturing limits

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 stable blending and acceptable compaction behavior for industrial applications.

7. ADVANTAGES

- Cost-effective alloy composition
- Suitable for general-purpose applications
- Stable processing behavior
- Good blending characteristics
- Flexible for industrial usage

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.