



1. PRODUCT DESCRIPTION

KLP 80 is a specialized, coarse air-atomized lead powder engineered for industrial applications requiring extreme density, superior malleability, and controlled reaction rates.

The grade is specifically tailored to maintain excellent flow characteristics while delivering the heavy mass required for acoustic damping, counterweights, and chemical processing.

2. KEY CHARACTERISTICS

| Property | Typical Value |
|------------------|-----------------|
| Purity (Pb) | ≥ 99.5 % |
| Apparent Density | 4.5 – 5.5 g/cc |
| Flow Rate (Hall) | 15 – 25 sec/50g |
| Melting Point | ~327°C |

4. PHYSICAL PROPERTIES

| Property | Description |
|------------------|-----------------------|
| Particle Shape | Irregular to teardrop |
| Production Route | Air atomized |
| Flow Behavior | Excellent |
| Oxidation | Controlled |

6. TYPICAL APPLICATIONS

- Industrial counterweights and ballasts
- Acoustic insulation and vibration damping
- Chemical manufacturing and lead salt synthesis
- Friction materials and specialized lubricants

8. SAFETY & PROCESSING GUIDELINES

- Caution:** Lead is toxic. Handle with strict compliance to local OSHA/environmental safety guidelines.
- Requires proper exhaust ventilation and personal protective equipment (PPE) during handling.
- Store in dry, sealed containers to prevent surface oxidation.

3. CHEMICAL COMPOSITION (%)

| Element | Typical (%) |
|-----------|---|
| Pb (Lead) | ≥ 99.5 |
| Others | Controlled within standard manufacturing limits |

5. PARTICLE SIZE DISTRIBUTION (PSD)

| Fraction | Typical Distribution (%) |
|--------------------|--------------------------|
| +80 mesh (>180 µm) | 0 – 5 |
| -80 +100 mesh | 10 – 20 |
| -100 +200 mesh | 40 – 60 |
| -200 mesh (<75 µm) | 15 – 35 |

** PSD is precisely controlled to ensure high bulk density and reliable flow properties for gravity-fed systems.*

7. ADVANTAGES

- Exceptionally high bulk density
- Excellent, consistent gravity-flow characteristics
- Superior vibration and sound attenuation
- High malleability under compaction

9. PACKAGING & SUPPLY

- Standard packing:** 25 kg heavy-duty drums or sealed UN-rated bags.
- Custom packaging available for safe transport and automated material handling systems.

10. DISCLAIMER

Values are typical and may vary depending on processing conditions. 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 and observe all mandatory safety protocols for heavy metals.