



## FINE TUNGSTEN POWDER

### C Series C3-C20

### Technical Data Sheet



Fine Tungsten Powders produced at Buffalo Tungsten are typically greater than 99.95% purity with average particle sizes up to 10 microns.

**APPLICATIONS:** Electrical Contacts, Military Ordnance, Heat Sinks, Mining Tools, Tungsten Rod and Bar

| PHYSICAL PROPERTIES |  |                                       |                                | NON-METALLIC IMPURITIES (WT%) |                            |
|---------------------|--|---------------------------------------|--------------------------------|-------------------------------|----------------------------|
| Type                | Average Fisher Particle Size FSSS (µm) | Apparent Density (g/in <sup>3</sup> ) | Standard Screening (mesh size) | Carbon (typical/max)          | Oxygen (LOR) (typical/max) |
| C3                  | 0.70–1.00                              | 20–45                                 | -100                           | ≤0.010 / ≤0.015 max           | ≤0.20 / ≤0.35 max          |
| C5                  | 1.00–1.40                              | 25–55                                 | -100                           | ≤0.008 / ≤0.010 max           | ≤0.15 / ≤0.20 max          |
| C6                  | 1.40–2.00                              | 30–60                                 | -100                           | ≤0.005 / ≤0.008 max           | ≤0.10 / ≤0.12 max          |
| C8                  | 2.00–4.00                              | 35–80                                 | -200                           | ≤0.004 / ≤0.007 max           | ≤0.05 / ≤0.08 max          |
| C10                 | 4.00–6.00                              | 40–110                                | -200                           | ≤0.004 / ≤0.005 max           | ≤0.05 / ≤0.07 max          |
| C20                 | 6.00–10.00                             | 50–120                                | -200                           | ≤0.004 / ≤0.005 max           | ≤0.05 / ≤0.07 max          |

| METALLIC IMPURITIES (WT%) |        |        |        |        |        |        |        |        |        |        |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Element                   | Al     | Co     | Cr     | Cu     | Fe     | Mo     | Na     | Ni     | Si     | Sn     |
| Typical                   | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.002 | <0.001 | <0.002 | <0.001 | <0.001 |
| Max                       | 0.003  | 0.002  | 0.005  | 0.002  | 0.005  | 0.010  | 0.003  | 0.005  | 0.001  | 0.001  |

Customizations are available, including

- Increased Apparent Density
- Narrower Particle Size Distribution
- Special Mesh Size Screenings
- Improved Flow Properties