

PURE TUNGSTEN METAL POWDER MATERIAL DATA SHEET

Elmet Technologies manufactures high quality tungsten metal powders for use in mill products, tungsten heavy alloys, electrical contacts, electrodes, transducers, sputtering targets, tungsten-polymer compounds, and metal injection molded products.

TYPICAL PHYSICAL PROPERTIES AND OXYGEN CONTENTS

Grade	UX 1.5	UX 3	UX 3.5 HGS	UX 5	UX 5 HGS
FSSS particle size, as-supplied	1.1 – 1.7	2.5 – 3.5	3.0 – 4.0	4.5 – 5.5	4.5 – 5.5
Scott density, g/in ³	30 – 45	55 – 70	45 – 55	58 – 70	50 – 60
Tap density, g/cm ³	4.0 – 4.5	5.5 – 7.0	4.5 – 5.5	5.5 – 7.5	4.5 – 5.5
Screen size	-150 mesh	-150 mesh	-150 mesh	-150 mesh	-150 mesh
Oxygen content, wt.%	0.08	0.04	0.05	0.02	0.03

Particle size distribution by laser scattering is available on request.

CHEMICAL COMPOSITION EXCLUDING GASES

W	≥ 99.95 wt%	K	≤ 100 ppm
Al	≤ 20 ppm	Mo	≤ 50 ppm
Cr	≤ 20 ppm	Na	≤ 20 ppm
Cu	≤ 10 ppm	Ni	≤ 40 ppm
Fe	≤ 50 ppm	Si	≤ 20 ppm

All other metallic elements are contained at ≤ 20 ppm.

The chemical and physical properties for each production lot are determined by using commercially accepted methods and are reported to the customer on a Certificate of Analysis. All material is packed in polyethylene bags inside of 3.5 gallon pails (up to 50 kg per container). Alternative packaging is available.

All products are compliant with EU RoHS Directive 2002/95/EC and with REACH Regulation (EC) No. 1907/2006.

All raw materials for Elmet's tungsten metal powders are obtained from certified conflict-free sources.

www.elmettechnologies.com