US Vanadium

Product Specification

Vanadium Pentoxide (V_2O_5)
(Ultra-High-Purity Granular)

CHEMISTRY

Major Elements		
	Min.	Max.
Vanadium (as V_2O_5)	99.8%	
V_2O_4		0.5%
Iron (Fe)		0.01%
Molybdenum (Mo)		0.01%
Potassium (K)		0.01%
Sodium (Na)		0.01%
Silicon (Si)		0.01%

PHYSICAL CHARACTERISTICS

Nominal Size
U.S. No. 20 x down (850 µm x down)
Physical Properties
Melting Point: 1274 ^{0}F (690 ^{0}C)
Bulk Density: 75 – 82 lb/ft^3 (1.2 – 1.3 g/cc)
Specific Gravity: Approx. 3.4
Appearance
Yellow-Orange Powder
Standard Packaging
Super Sacks: 2,205 lbs. (1,000 kg)
55-Gallon Open-Head Steel Drum: 440 lbs. (200 kg)
16-Gallon Fibre Drum: 110 lbs. (50 kg)
12-Gallon Fibre Drum: 55 lbs. (25 kg)

Vanadium Pentoxide (V_2O_5) is a high-purity product produced at our ISO 9001:2015 certified Hot Springs, Arkansas facility.
US Vanadium's vanadium pentoxide is the highest purity vanadium pentoxide in the world and is used in: various alloys, Benfield and Stretford gas processing, coloring compounds, batteries, dye fixants and vitamins, as well as a catalyst in maleic-acid and sulfuric-acid production.
US Vanadium's vanadium pentoxide has an orthorhombic crystalline structure that increases reactivity in chemical applications.

Specification No. MC5U	**Revision No. 0**
Issue Date: 01/16/26	Revision Date: 01/16/26
Director of Technology Approval	
Quality Manager Approval	

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