

Vanadium Pentoxide (V₂O₅) (High-Purity Granular)



CHEMISTRY

Major Elements		
	Min.	Max.
Vanadium (as V ₂ O ₅)	99.6%	
V ₂ O ₄		0.5%
Iron (Fe)		0.02%
Molybdenum (Mo)		0.025%
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 °F (690 °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)
12-Gallon Fibre Drum:	110 lbs. (50 kg)

Vanadium Pentoxide (V₂O₅) 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. MC5 Revision No. 9

Issue Date: 06/01/89 Revision Date: 05/07/19

Director of Technology Approval



Quality Manager Approval

