

## Vanadium Pentoxide (V<sub>2</sub>O<sub>5</sub>) (High-Purity Granular)



### CHEMISTRY

Major Elements		
	Min.	Max.
Vanadium (as V <sub>2</sub> O <sub>5</sub> )	99.6%	
V <sub>2</sub> O <sub>4</sub>		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	
<b>Melting Point:</b>	1274 °F (690 °C)
<b>Bulk Density:</b>	75 – 82 lb/ft <sup>3</sup> (1.2 – 1.3 g/cc)
<b>Specific Gravity:</b>	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<sub>2</sub>O<sub>5</sub>)** 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. 11**

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Director of Technology Approval 

Quality Manager Approval 