

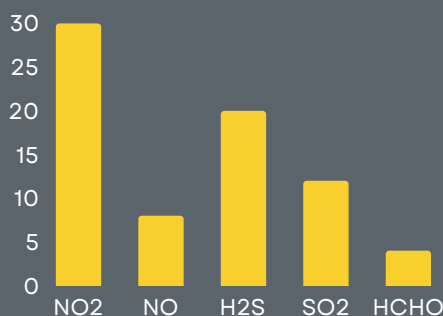


## ORION 12%

### Filtration Media

Orion is a spherical alumina-based adsorbent media infused with potassium permanganate ( $\text{KMnO}_4$ ) as the active component. Potassium permanganate is integrated during manufacturing, ensuring uniform distribution throughout the process. This media is engineered to effectively remove pollutants such as acidic gases, nitrogen, sulfur compounds, and low molecular weight VOCs. It boasts high adsorption capacity, excellent resistance to moisture, superior efficiency, and is non-flammable.

#### Removal Capacity of Pollutants (%)



#### Specifications

Properties	Value	Units	Value	Units
Apparent density	760 ± 30	g/cm <sup>3</sup>	47 ± 2	lb/ft <sup>3</sup>
Sphere Diameter	2-5	mm		
Surface area	1052	m <sup>2</sup> /g	5136	ft <sup>2</sup> /lb
Crush strength	>2	KgF	> 4.4	lbF
Moisture content	< 25%			
KMnO <sub>4</sub>	12 %			

#### Operating Conditions

Parameter	Value (metric)	Value (British)
Temperature	-20 - 50 C°	-4 - 122 F°
Relative Humidity	10-95%	
Efficiency	99% min	
Storage	5-30 C°	41-86 F°
Shelf life	2 years	

#### Packaging Options

Big bags	800kg	1750 lb
Small bags	40kg	90 lb



✉ [jv@vel-international.com](mailto:jv@vel-international.com)

🌐 [vel-international.com](http://vel-international.com)

☎ +1 832.314.8905

📍 Venice, FL