



# RXSOL

CHEMO PHARMA INTERNATIONAL

## Technical Data Sheet (TDS)

### RXSOL-24-1905-025

Potassium Permanganate Impregnated Alumina

Impregnated Activated Alumina with potassium permanganate  $KMnO_4$ . This is highly porous material this material can have a surface area significantly over 200 square metres/g. High quality High crush strength power, which limits dusting, is important during loading of desiccant towers. High crush strength makes alumina effective as a prebed material when used with other types of desiccants.

Potassium Permanganate Impregnated Alumina has strong oxidizing property with Potassium Permanganate ( $KMnO_4$ ), it has good efficiency in removing Hydrogen Sulfide ( $H_2S$ ), Chlorine ( $Cl_2$ ), Formaldehyde ( $HCHO$ ), Nitric Oxide ( $NO$ ) & Sulfur Dioxide ( $SO_2$ ) from air.

Drier Chemicals manufacturer, importer and exporter of industrial chemicals and desiccants such as silica gel, activated alumina, activated carbon and carbon molecular sieves etc. **High adsorption capacity.** With high surface area and excellent pore distribution, Activated Alumina Desiccants has a high water adsorption capacity. This reduces initial cost, energy consumption and operating costs through smaller bed sizes and/or longer operating cycles.

Removal of hydrogen sulfide ( $H_2S$ ), sulfur dioxide ( $SO_2$ ), nitric oxide ( $NO$ ), and formaldehyde ( $CH_2O$ ) becomes easy with Potassium Permanganate Impregnated Alumina. This media is formed from a combination of activated alumina and other binders, impregnated with potassium permanganate, providing excellent optimum adsorption, absorption, and oxidation of a wide variety of gaseous contaminants.

Removal Capacities Contaminant Gas	Gram / cc	%BY WEIGHT
Hydrogen sulfide ( $H_2S$ )	0.0640	8.00 %
Nitric oxide ( $NO$ )	0.0228	2.85
Sulfur dioxide ( $SO_2$ )	0.0320	4.00
Nitrogen dioxide ( $NO_2$ )	0.0900	11.25
Formaldehyde ( $HCHO$ )	0.0112	1.40

\* 100 pounds (45.36 kg) of RXSOL-24-1905-025 media will remove a minimum of 8 pounds (3.62 kg) of hydrogen sulfide.

Potassium Permanganate Impregnated Alumina

#### 1. Properties:

- 1.1. Activated Alumina content: 75~85wt%.
- 1.2. Potassium permanganate content:3~5 wt%.
- 1.3. Humidity $\leq$ 22 wt%.
- 1.4. Particle size3.2~3.8mm.
- 1.5. Surface area:200~300m<sup>2</sup>/g.
- 1.6. Shape: ball particles.
- 1.7. Density:0.80~0.9g/cc.

## 2. Performance guarantee□

- 2.1. Filtration rate for H<sub>2</sub>S $\geq$ 0.10g H<sub>2</sub>S/cc.

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