

Product Bulletin for **Purafil Purakol-K Media**

Purakol-K Media consists of extruded cylindrical, porous pellets formed from a very high quality virgin activated carbon suitably impregnated to provide an enhanced removal capacity for acid gases and other corrosive contaminants in industrial environments. No binders are used making the carbon completely available for adsorption of target gases.



Purakol-K Media has been specially engineered to provide an enhanced neutralization potential due to a high reserve alkalinity, thus assuring the highest overall performance. The chemisorptive process removes contaminant gases by means of adsorption, absorption, and chemical reaction (neutralization). Harmful gases are trapped within the pellet and converted into harmless solids which remain in the pellet, eliminating the possibility of desorption and release back into the environment

Purakol-K Media demonstrates a higher working capacity for enhanced control of acid gases in corrosive environments such as pulp & paper mills, refineries, chemical plants, steel mills, aluminum smelters, for the protection of sensitive electronic process control equipment and to protect plant personnel in case of an accidental spill or release. Purakol-K media provides the following minimum removal capacities:

Removal Capacities

Contaminant Gas	g/cc	Weight % *
Hydrogen sulfide (H ₂ S)	0.1300	20.0
Sulfur dioxide (SO ₂)	0.0520	8.0
Chlorine (Cl ₂)	0.0520	8.0
Nitric oxide (NO)	0.0195	3.0

* 100 pounds (45.36 kg) of Purakol-K media will remove a minimum of 23 pounds (9.07 kg) of hydrogen sulfide.

Specifications

CTC activity	60% (min)
Hardness number	95 (min)
Moisture	5.0% (max)
Ash content	12% (max)
Bulk density	40 lb./ft ³ (0.65 g/cc) ±5%
Nominal pellet size	0.16" (4 mm)

Application Guidelines

Temperature	-4°F to 125°F (-20°C to 51°C)
Humidity	10 - 95% RH
Air Speed	60 - 500 fpm (0.30 - 2.54 m/s)
Performance	99.5% (min) initial removal efficiency in Purafil systems

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Quality Control

Each lot of Purakol-K media is thoroughly tested prior to shipment according to the procedures described in Purafil's ISO 9001 Quality Systems Manual. This testing includes but is not limited to: CTC activity, hardness, bulk density, moisture content, and ash.

Disposal

Purakol-K media is non-toxic and non-hazardous as supplied. Spent media may exhibit a fairly high BTU value similar to heating values for coal due to adsorption of various organic gases and vapors. As such, it could be used as a fuel additive for solid-fueled boilers, or disposed of through incineration. However, in all cases spent Purakol-K media should be disposed of according to local, state, and federal guidelines.