

SPECIFICATION STP-460K

The **STP-460K** impregnated carbon is a cylindrical-shaped carbon made from a carefully selected grade of coal. It is pelletized under rigidly controlled conditions using a high quality binder. This activated carbon possesses a high mechanical strength and lends itself well to numerous cycles of regeneration. Its shape offers a low flow resistance.

APPLICATION: Enhanced removal of hydrogen sulfide and mercaptans typically found in sewage treatment plants, pulp and paper mills, petroleum refineries and chemical plants.

UNIMPREGNATED CARBON PROPERTIES:

Total Surface Area (N ₂ BET Method)	1050 - 1200 m ² /gm
Apparent Density (ASTM D2854)	30 lbs/ft ³
Pore Volume (Hg displacement)	0.70 - 0.95 cc/gm
Pellet Size	4.0 mm
Mean Particle Diameter	3.7 mm
Iodine Number, minimum (ASTM D4607)	1050 mg/gm
CCL ₄ Activity, minimum (ASTM D3467)	60%
Moisture, maximum (ASTM D2867)	5%
Hardness Number, minimum (ASTM D3802)	97

IMPREGNATED CARBON PROPERTIES:

Apparent Density (ASTM D2854)	0.56 gm/cc 35 lbs/ft ³
Moisture, maximum	10%
H ₂ S Capacity, minimum (Calgon TM 41R)	0.16 gm H ₂ S/cc carbon

PRECAUTIONS:

Wet **STP-460K** may cause skin burns and irritation upon direct exposure. Heat of adsorption may also cause skin burns. **STP-460K** is not toxic by inhalation, but dust may cause irritation of nose and throat. **FIRST AID:** In case of skin or eye contact, immediately flush with plenty of water for at least 15 minutes. If irritation persists, call a physician.

CAUTION: Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low-oxygen spaces should be followed, including all applicable Federal and State requirements.

