

STI™-X

STI™-X is a coal-based, hydroxide impregnated, activated carbon specifically developed for the removal of acid gases and odor compounds from air. It is manufactured by high-temperature steam activation of selected grades of bituminous coal. STI™-X is a proven product for indoor air quality applications involving purification

of inlet, recycle, or exhaust air streams. It provides very high capacity for compounds that are not strongly adsorbed by other carbons (such as hydrogen sulfide, mercaptans, sulfur dioxide, chlorine, hydrogen chloride, etc.). STI-X™ is a 4-mm pellet to be used when low pressure drop is critical.

Test	Typical Values		Calgon Carbon Test Method
	Min	Max	
Ash, wt% (Note 1)	-	12	ASTM D 2866
Carbon Tetrachloride, wt% (Notes 1 & 2)	60	-	ASTM D 3487-94
Density (Apparent), g/cc	0.60	-	TM-7, ASTM D 2854
H ₂ S Breakthrough Capacity, g H ₂ S/ml	0.14	-	TM-41 (9" Column)
Hardness Number (Note 1)	95	-	ASTM D 3802
Moisture (As packaged), wt%	-	15	TM-1 or ASTM D 2867
> 4 US Mesh [4.75 mm], wt%	-	-	
6 US Mesh [3.35 mm], wt%	-	-	
< 6 US Mesh [3.35 mm], wt%	-	5	
< 8 US Mesh [2.36 mm], wt%	-	2	

Note 1: This test is performed on the base material or prior to impregnation as appropriate.

Note 2: Carbon Tetrachloride value is based upon the ASTM D 5742 correlation. Carbon Tetrachloride=Butane Activity x 2.55.

The impregnates on this carbon have been shown to decrease the ignition temperature of the carbon. This product passes the United Nations Self-heating Test (United Nations Transportation of Dangerous Goods, Manual of Tests and Criteria, Part III, Section 33.3.1.6 - Test N.4 - Test Method for Self Heating Substances) and is therefore deemed suitable for shipment without concern over its self-heating. However, in some applications when the carbon is left open to air and low convective flow of air passes through it, the carbon can self-heat and ignite. Therefore, when an adsorption vessel containing carbon is out of service or in storage, care should be taken to prevent convective airflow which can be prevented with the installation of blind flanges on inlet and outlet connections.

Safety Message

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.

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Warranty Disclaimer

Calgon Carbon Corporation warrants that the Activated Carbon STI™-X will be free from defects in materials and workmanship for a period of 90 days following the date of purchase. In the event of a breach of this warranty, Calgon Carbon Corporation will, in its discretion, repair or replace any defective parts or the complete unit during the warranty period. This warranty does not apply to defects caused by (i) normal wear and tear, (ii) accident, disaster or event of force majeure, (iii) misuse, fault or negligence of or by Buyer, (iv) use of Activated Carbon STI™-X in a manner for which it is not designed, (v) external causes such as, but not limited to, power failure or electrical power surges, or (vi) improper storage and handling of the Activated Carbon STI™-X. EXCEPT AS EXPRESSLY PROVIDED IN THIS WARRANTY STATEMENT, CALGON CARBON CORPORATION DISCLAIMS ALL OTHER WARRANTIES, WHETHER STATUTORY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CALGON CARBON CORPORATION DOES NOT WARRANT THAT THE ACTIVATED CARBON STI™-X ARE ERROR-FREE OR WILL ACCOMPLISH ANY PARTICULAR RESULT. ANY ADVICE OR ASSISTANCE FURNISHED BY CALGON CARBON CORPORATION IN RELATION TO THE ACTIVATED CARBON STI™-X PROVIDED FOR HEREUNDER SHALL NOT GIVE RISE TO ANY WARRANTY OR GUARANTEE OF ANY KIND. THIS WARRANTY WILL TAKE PRECEDENCE OVER ANY AND ALL OTHER WARRANTIES UNLESS SPECIFICALLY DISCLAIMED AND REFERENCED BY CALGON CARBON CORPORATION.

ACTIVATED CARBON INTRODUCTION
ACTIVATED CARBON STI™-X

Calgon Carbon Corporation is constantly striving to improve its products and capabilities and to provide the best product to its customers. Calgon Carbon Corporation may from time to time develop product improvements or alterations (including, without limitation, revisions to product specifications), and may implement such Product Improvements without notice to the Buyer.

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