

HS-Clean Pro is a chemisorbtive granulate wich serves as replacement or as addition to HS-Activated Carbon. HS-Clean Pro offers favourable adsorbtion abilities against various organic gases. We recommend it's use in addition to activated carbon at processes where H2S, SO2 or other organic / smell intensive agents, i.e. aminoacids or formaldehyde must be removed from the air flow.

HS-Clean Pro is manufactured from high proosity activated alumina granules which are impregnated with potassium permanganate (KMNO $_4$ ). The potassium permanganate serves as oxidizing agent to destroy, inactivate or converse the problematic gases and odours. It is not combustible and thus fulfills UL class 1.

HS-Clean Pro will change color by onwardly chemisorbtion / oxidation from purple (fresh media) to brown and black (used media).

Gaseous air impurity	formular	capacity HS-Clean Pro	capacity HS-Clean Pro II
Formaldehyde	CH <sub>2</sub> O	1,4 %	2,5 %
Hydrogen sulfide	H <sub>2</sub> S	8,0 %	14,0 %
Nitric oxides	div.	2,8 %	4,9 %
Sulphur dioxide	SO <sub>2</sub>	4,0 %	7,0 %
Ethylene	C <sub>2</sub> H <sub>4</sub>	1,0 %	1,75 %

Upon request we will send you performance and capacity data for other gases, agends, odours etc. The capacity in [%] determines the possible weight relative adsorbtion / chemisorbtion capacity.

The air flow should be adjusted to the applications requirement. We recommend an air velocity of 0,3 - 2,5 [m/s].

Examples	• 100 kg HS-Clean Pro binds appx. 8 kg H <sub>2</sub> S
	<ul> <li>200 kg HS-Clean Pro II binds appx.14 kg SO<sub>2</sub>.</li> </ul>
Variants	HS-Clean Prois available with different grades of
	KMNO <sub>4</sub> impregnations:
	<ul> <li>HS-Clean Pro</li> </ul>
	with 4 % KMNO <sub>4</sub> impregnation
	<ul> <li>HS-Clean Pro II</li> </ul>
	with 8 % KMNO4 impregnation
	HS-Clean Pro III
	with 12 % KMNO4 impregnation
	exclusive media for special tasks
Operational conditions	• rel. h. 10 [%] - 95 [%]
•	<ul><li>temperature range -20[°C] to 51 [°C]</li></ul>
Applications	<ul> <li>HS-AKP 26 (cartridge filter filling)</li> </ul>
	HS-A053 (replaceable filterbed cell)
	<ul> <li>HS-Securesorb (deep bed filter system)</li> </ul>
	<ul><li>HS-Combicel</li></ul>
	HS-Carbopad

