

NECA|active®sulfo: max/pro/plus/basic

The product family for the safe desulphurisation of biogenic or technical gases!

- 4mm extruded and catalytic pelletised-activated carbon (hard coal base)
- doped-activated carbon according to the ISDAC® process (In-Situ-Doped-Activated-Carbon)

NECA|active®sulfo is a unique product family whose performance is not only based on a strongly developed micro- and mesopore system. This product range is manufactured according to the new innovative ISDAC® process, which ensures that the important catalytic components are distributed particularly finely in the carbon matrix. In the process, the raw material hard coal is already technically modified to achieve maximum safety and efficiency.

The application areas of NECA|active®sulfo

**Request
further
information!**

For the removal of acid gases (trace gases; low oxygen)

- Hydrogen sulphide
- Sulphur dioxide
- Disulfides
- Mercaptans
- Thiols

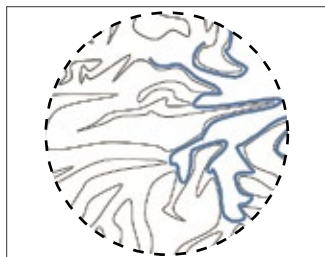
For the purification of technical gases

- Biogas
- Sewage gas
- Landfill gas
- Sewage structures
- Odour reduction

NECA|active®sulfo - increased efficiency through the ISDAC® process (cross-sectional drawing)



Pore structure with untreated pore system



Pore structure with impregnated pore system



Pore structure with conventionally doped pore system



Pore structure according to the new ISDAC® method

Benefit now from the following advantages:

- ✓ Highest safety and loading performance in one product!
- ✓ The danger of spontaneous combustion is significantly reduced!
- ✓ 60-100 % by weight Loading capacity* with hydrogen sulphide possible!
- ✓ Safe application with good service life!
- ✓ Very favourable price-performance ratio = lower operating costs!



*at only 5% breakthrough H2S in the filter in the clean gas, 40-80% rel. gas humidity, 4-6s in the porous bulk



NECA | active[®] sulfo max/pro/plus/basic

Doped, pelletised-activated carbons



The **NECA | active[®] sulfo** product family is a new generation of doped chemisorption-activated carbons based on the new **ISDAC[®]** process. This innovative process results in a significantly improved pore structure with finely formed catalytic components for further improved performance in the application. In practice, a noticeable reduction in operating costs* is achieved with this pelletised-activated carbon.

As one of the leading suppliers of products and services for the efficient purification of biogenic and technical gases, our products are designed for high efficiency under a wide range of operating conditions.

(*Under recommended application and operating conditions)

Optimal use of activated carbon ++ = Very good + = Good	Range of application at average H ₂ S concentrations			
	< 50ppm	> 50ppm	> 100ppm	> 250ppm
NECA active [®] sulfo max			+	++
NECA active [®] sulfo pro		+	++	+
NECA active [®] sulfo plus	+	++	+	
NECA active [®] sulfo basic	++	+		
Rel. gas humidity (%rel.GF, 20°C)	20-30	30-40	40-60	60-90

NECATEC AG
new carbon + technologies

Bredeneyer Str. 2B | D-45133 Essen
Tel.: +49 800 000 77 19 | info@necatec.de
www.necatec.de