

KÖSTROLITH® NaMSX(O2)K

Molecular sieve Köstrolith® NaMSX(O2)K is synthetic crystalline aluminosilicate with a regular micropore structure.

DESCRIPTION:	binder containing zeolite NaMSX (FAU)
PORE SIZE:	9 Å (0.9 nm)
CHEMICAL FORMULA:	$\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot m \text{SiO}_2 \cdot n \text{H}_2\text{O}$ ($m \leq 2.35$)

CHARACTERISTIC PROPERTIES

PROPERTY	METHOD	UNIT	NaMSXK 1.2 - 2 mm	NaMSXK 1.6 - 2.5 mm
beads size range - nominal, mm - approx. mesh size			1.2 - 2.0 10 × 16	1.6 - 2.5 8 × 12
bulk density (<i>compacted</i>)	CWKM-118	g/l	680 - 725	655 - 700
attrition	CWKM-122	% m/m	max. 0.2	max. 0.2
crush strength	CWKM-108	N	min. 10	min. 25
moisture content (<i>as delivered</i>)	CWKM-408	% m/m	max. 0.6	max. 0.6
N ₂ adsorption capacity, static * (300 mbar, 25 °C)	CWKM-409	cm ³ (STP)/g	min. 2.4	min. 2.4
N ₂ adsorption capacity, static * (1000 mbar, 25 °C)	CWKM-409	cm ³ (STP)/g	min. 7.4	min. 7.4

* sample activated.

Special customer related specifications can be agreed.

APPLICATION

MACHINERY AND PLANT ENGINEERING: TECHNICAL GASES	Elimination of trace contaminants from air and other gases Desulphurization (sweetening) of natural gas and other fluids, especially for the removal of mercaptanes Drying of gases and liquids Non cryogenic oxygen enrichment from air using pressure (vacuum) swing adsorption (PSA/VPSA) technique
MACHINERY AND PLANT ENGINEERING: THERMO-CHEMICAL ENERGY STORAGE	Generation of cold or heat, possibly using environmentally sound primary energy sources (sun energy, exhaust heat etc.)



REGENERATION

Regeneration of molecular Sieve **Köstrolith® NaMSX(O2)K** may be carried out by increasing the temperature and/or reducing the pressure or using a suitable purge gas, resp. The regeneration mode to be used, however, always depends on the particular conditions of the application case. Especially the possibly limited stability of certain molecular sieve against thermal and hydrothermal exposure needs be taken into consideration. In the case of doubt please contact our technical service staff.

PACKAGING

Following standard packaging is available:

- Air tight steel drums of 216 l: 135 kg net
- With aluminium foil containing laminate PE inliner equipped big bags: 450 - 800 kg net

Further packaging available on request.

CERTIFICATES

CWK is certified according to ISO 9001, ISO 14001 and ISO 50001.