ANDREA GALLO DI LUIGI S.r.I.



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# TECHNICAL DATA SHEET Setacci molecolari MS 4A

**Application: Specialties** 

#### **DESCRIPTION Molecular Sieve 4A** is a synthetic crystalline aluminosilicate with a regular macropore structure. Zeolite Structure : A Type (LTA) Pore Size: 4Å (0.4 nm) Chemical Formula: Na<sub>2</sub>O \* Al<sub>2</sub>O<sub>3</sub> \* 2SiO<sub>2</sub> \* n H<sub>2</sub>O

## APPLICATION

**Molecular Sieve 4A** is a widely used adsorbent for many different applications. It displays a high water adsorption capacity already at low partial pressures and still at temperature up to 100°C.

**Molecular Sieve 4A** is commonly used for drying organic liquids (solvents, oils, gasolines, and other saturated hydrocarbons), air, liquid gases (propane, butane) as well as technical and noble gases (H2, N2, He, Ar, etc.)

## REGENERATION

Regeneration of **Molecular Sieve 4A** may be carried out by increasing the temperature and/or reducing the pressure or using a suitable purge gas, resp. The purge gas temperature must be sufficiently high to warm up the molecular sieve to a level of 200 °C to 300 °C, but not exceeding 450 °C. The appearance of so-called hydrothermal conditions during the regeneration should be avoided as far as possible.

PROPERTIES		4 <b>A</b>	4 <b>A</b>	4 <b>A</b>
Items	Unit	1.6 – 2.5 mm	2.5 – 5.0 mm	4 – 5 mm
Beads Size Range (nominal)	mm	1.6 – 2.5	1.6 – 2.5	4.0 - 5.0
Bulk Density ( compacted)	g/l	725-795	725-795	725-795
Attrition	%wt.	Max. 0.2	Max. 0.2	Max. 0.2
Crush Strength	N/bead	Min. 25	Min. 50	Min. 60
Moisture content ( as delivered)	%wt.	Max. 1.0	Max. 1.0	Max. 1.0
Water adsorption Capacity* ( 55% rel. hum., 20 °C)	%wt.	Min. 21.5	Min. 21.5	Min. 21.5
		* Sample activated		

#### PACKAGING

Air tight steel drums of 216 I (135 kg. net); polypropylene inliner equipped big bags of different sizes (450-850 kg. net) Other options available on request.