



## Setacci molecolari MS 4A

### Molecular Sieves widely used adsorbent for many different applications

**Description:** A type (LTA)  
**Pore size** 4 Å (0.4 nm)  
**Chemical formula**  $\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2.0 \text{ SiO}_2 \cdot n \text{ H}_2\text{O}$

**Resource base:**

- synthetic crystalline aluminosilicate with a regular micropore structure

**Particular qualities:**

- highly selective adsorbent for many different applications
- capable of regeneration

**Application:**

- drying of organic liquids (solvents, oils, gasoline and other saturated hydrocarbons)
- air, liquid gases (propane, butane) as well as technical and noble gases ( $\text{H}_2$ ,  $\text{N}_2$ , He, Ar etc.)

Items	Value	1.2 – 2.0 mm	1.6 - 2.5 mm	2.5 – 5 mm
<i>Beads Size Range</i>	nominal, mm	1.2 – 2.0	1.6 - 2.5	2.5 - 5.0
	approx. mesh size	10 x 16	8 x 12	4 x 8
<i>Bulk Density</i>	compacted, g/l	725 - 795	725 - 795	725 - 795
<i>Attrition (% wt.)</i>	wt.-%	max. 0.2	max. 0.2	max. 0.2
<i>Crush Strength</i>	N/bead	min. 15	min.25	min. 50
<i>Moisture Content</i>	as delivered, wt.-%	max. 1.0	max. 1.0	max. 1.0
<i>Water Adsorption Capacity*</i>	55 % rel. hum., 20 °C, wt.-%	min. 21.5	min. 21.5	min. 21.5

The typical product properties are based on average values from current production.

The specification data represent our standard product specifications.

**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 regeneration mode to be used, however, always depends on the particular conditions of the application case. Especially the possibly limited stability of a certain molecular sieve against thermal and hydrothermal exposure needs be taken into consideration. In the case of doubt please contact our technical service staff.

**Standard packaging:**

650 kg, net weight Big Bag  
135 kg, net weight steel drum