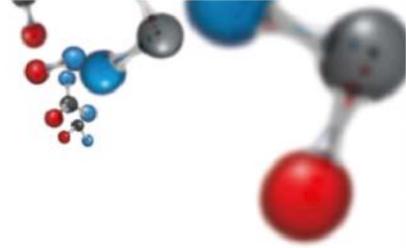


# TECHNICAL DATA SHEET (TDS)

## MOLECULAR SIEVE TYPE 4A



**4A Molecular Sieve** is a sodium form of aluminosilicate. The adsorption of different molecules by 4A depends upon the major factors like molecular diameter and polarity of adsorbate and effective pore diameter of 4A. The Molecular Sieve will adsorb molecules which have a critical diameter less than four angstrom ( $CO_2, H_2O$  &  $NH_3$ ).

### GENERAL CHARACTERISTICS

Parameter	4AS		4A-G		4APP	4A PASTE
Shape	Pellets	Beads	Pellets	Beads	Powder	Paste
Size (mm)	3.0 & 1.5	0.5 - 6.0	3.0 & 1.5	0.5 - 6.0	2-10 micron	2-10 micron
Bulk Density Kg/ lit	0.75 - 0.85	0.75- 0.85	0.64 -0.70	0.64-0.70	0.45-0.55	0.85-1.05
Water Adsorption Capacity @30 & 4.6 mm of Hg (15% RH) (%)	21.5	21.5	18.5	18.5	24.0	12.0
Water Adsorption capacity 30°C & 23.5 mm of Hg (75%RH) (%)	23.5	23.5	21.0	21.0	27.5	13.0
Attrition/ Abrasion Resistance (%)	< 0.15	< 0.15	< 0.2	< 0.2	-----	-----

### TYPICAL APPLICATIONS

- Hydrogen Rich Gas Drying
- Reformer Recycle Gas Drying
- Inert Gas Ammonia Removal
- Low Pressure Air Drying
- Natural Gas Drying
- Natural Gas H<sub>2</sub>S Removal
- Natural Gas CO<sub>2</sub> Removal
- LNG Plant Feed Pretreatment
- PU Systems

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Manufactured by: Zeolites & Allied Products Pvt. Ltd., 16, Udyog Kshetra, Goregaon-Mulund Link Road, Mulund (West), Mumbai-400080, Maharashtra, India. Phone: 2568 9889 | 6796 7961 Fax: 2565 2479.

**Zeolites & Allied Products Pvt. Ltd.**