

PURMOL™ 4ST

Technical Datasheet



Purmol adsorbents are synthetic zeolites in powder form with a complex alkali aluminosilicate structure. This structure is very open in nature and contains pores of a regular and precisely defined size. This allows for a selective adsorption of molecules based on molecular size and polarity.

Purmol adsorbs small, polar molecules, while excluding large organic molecules. In practice, Purmol adsorbs water, but not solvents, resins, etc. Purmol is an excellent moisture scavenger for polyurethanes, zinc rich primers, aluminum-pigmented coatings, and polysulfide systems. **Purmol 4ST** is a sodium (Na) type A zeolite with a pore size of approximately 4 Ångstroms (0.4 nm).

Purmol 4ST is recommended for use with high quality coatings. In general, we recommend the addition of 2.5% – 5% Purmol powder to the polyol component. This must be stirred thoroughly for a minimum of two hours to allow the Purmol to adsorb all the water before addition of the isocyanate. With metal dust coatings we recommend the addition of 0.5% – 2% Purmol 4ST powder.

Typical Properties (all nominal values)	Value	Unit
Residual Water, 550°C, 2hrs	≤2.5	% w/w
Water Adsorption Capacity, 50%rH, 20°C, 24hrs	≥24	% w/w
pH-value suspension 10%w/w, EN ISO 787-9	≤11.5	pH
Particle size, scratches, EN ISO 1524	≤20	µm
Particle size, points, EN ISO 1524	≤30	µm

Additional Information

Generic Names	Alkali Aluminosilicate, Zeolite, Molecular Sieve 4A
Packaging	20 kg Valve bag
Storage	When stored unopened in original packaging in cool, dry conditions, the product has a shelf life of three years.
Safety	Review SDS
CAS No	1318-02-1
EINECS No	215-283-8
REACH No	01-2119429034-49

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