

Technical Data Sheet

Version: 2.0
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Date: 18 / 6 / 2026



Item Name:

APSM

PRODUCT INFORMATION

Chinese Name:	活性层状偏硅酸钠
Commodity Name:	APSM, SPM
Chemical Name:	Active Poly Sodium Metasilicate
Other Name:	Sodium Poly Metasilicate
CAS No.:	1344-09-8
Molecular Weight:	n/a
Molecular Formula:	$\text{Na}_2\text{O} \cdot n\text{SiO}_2 \cdot n\text{H}_2\text{O}$

PRODUCT DESCRIPTION

To exchange Calcium and Magnesium capacity is higher than 4A Zeolite, it is equivalent to STPP, water soften speed is quick, soften capacity is strong and temperature scope is wide. Good compatibility with many kinds of surfactants(especially non-ionic surfactants), and with self-consistent stain removable ability.

Environmental friendly.

TECHNICAL SPECIFICATION

Index	Standard	
Appearance	White granular powder	
Ca^{2+} exchange (mg CaCO_3 /g), 35°C, 20min	320 min	(Typical value: 337)
Mg^{2+} exchange (mg MgCO_3 /g), 35°C, 20min	330 min	(Typical value: 332)
$\text{Na}_2\text{O} + \text{SiO}_2$ by wt %	75 min	(Typical value: 76)
pH value (25°C, 1% solution)	11 max	(Typical value: 10.8)
Whiteness %	85 min	(Typical value: 90)
Water insoluble by wt %	1.5 max	(Typical value: 0.8)
Bulk density by g/cm ³	0.48 - 0.60	(Typical value: 0.55)
Particle size (through 20mesh sieve) by wt %	90 min	(Typical value: 92)

MAIN APPLICATION

Replacing STPP to make low phosphor and phosphors-free detergent powder.

PACKING, LOADING AND SHELF LIFE

Packing: 25kg/ 650kg/ customerized PP woven bags with PE liner

Loading: 27mt per 40'HQ for 25kg bags; 26mt per 40'HQ for 650kg bags

Shelf Life: 24 months when stored in cool, dry and ventilated warehouse, away from incompatible materials.

DISCLAIMER

The information provided in this data sheets is for informational purposes only is considered reliable, but Rawchem doesn't guarantee how any other products associated with this information will behave in combination with variables to other matters. It's recommended to make adaptations to local working conditions and to the raw material to be used.

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PRODUCT IMAGE



White Granular Powder Pic

* The image shown here is indicative only. The actual product may differ.

PACKING, STORAGE AND LOADING



* 650kg PP woven bags with PE liner Pic



* Loading Pic

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