



CLAY DESICCANT

■ Introduction

Bentonite clay mainly consists of montmorillonite. It is scalelike, in color of white, grey, buff, pink, purple etc. It is a natural non-metallic sedimentary or volcanic mineral. Some are with porous structure, some are hard and brickle, some are soft and satiny. The simplest chemical molecular formula of montmorillonite is $Al_2O_3 \cdot 4SiO_2 \cdot 3H_2O$, theoretically, it consists of $SiO_2(66.7\%)$, $Al_2O_3(25.3\%)$, $H_2O(5\%)$. However, its factual component is much more complicated. Montmorillonite from different places are quite different in components. Its applications include civil engineering, papermaking, foundries, effluent treatment, drilling, soil sealant absorption, cat litter and sorbents.

■ Clay Desiccant

Top-Sorb clay desiccant is widely used in machinery parts, precise instruments, electric and metal products and military-industries products etc. It is known as a green product due to its absolute safety and 100% environmental friendliness. It is non-toxic and non-rusty, containing no any additive and calcium chloride. It can be regenerated for repeated use at low temperature without deterioration.

■ Technical data

Chart1.

Items	Unit	Index	
Color	/	purple/ white	
Granularity	MM	0.5~4	
Consistency	G/L	980	
Moisture content (170°C)	%	<0.7	
PH	/	7.0 ± 0.5	
Adsorption capacity	25°C RH=20%	%	≥ 12.0
	25°C RH=40%	%	≥ 19.2
	25°C RH=80%	%	≥ 25.3
Additive	/	Nil	
Calcium Chloride	/	Nil	



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■ Technical data

Chart 2. Adsorption rate of Top-Sorb clay (25C°)

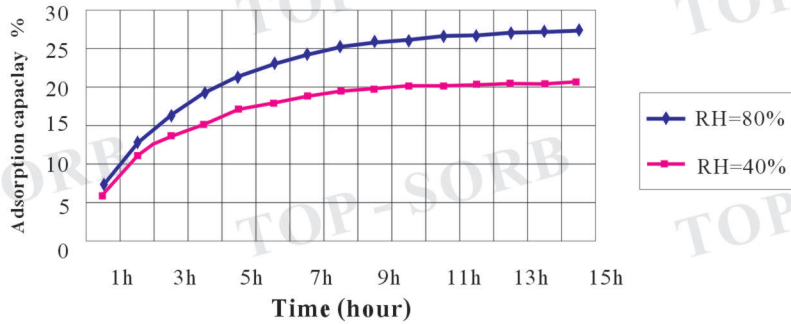
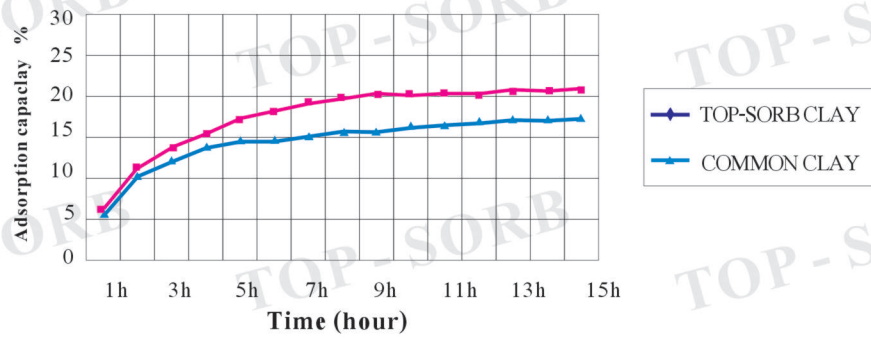


Chart 3. Adsorption comparison (25C°, RH40%)



■ Quality standard

PRC Military GJB2714-96/USA Military 3464E



Granularity available: 0.5~ 4 mm