

High Silica Zeolites

(Hydrophobic Zeolite)

Deodorant/Smell Remover

Grades for Food/Skin Contact

type	application	example
ABSCENTS 1000	larger molecular weight, polar molecule (0.9nm)	aldehydes, amines, ammonia, organic chlorides,
ABSCENTS 2000	wide variety of chemicals (0.6–0.9nm)	trimethylamine, triethylamine methyl mercaptan, ethyl mercaptan, n-butyl mercaptan, Isovaleric acid, toluene styrene, smell of onion, garlic and banana
ABSCENTS 3000 (most hydrophobic)	non-polar molecules, small molecules (0.6nm)	trimethylamine, methanol, ethylene, acetaldehyde, sulfur compounds (sulfides, disulfides, carbon disulfide)

Only Powder for food/skin contact grades

※ This data is for reference only.
We recommend your actual evaluation of adsorbents.

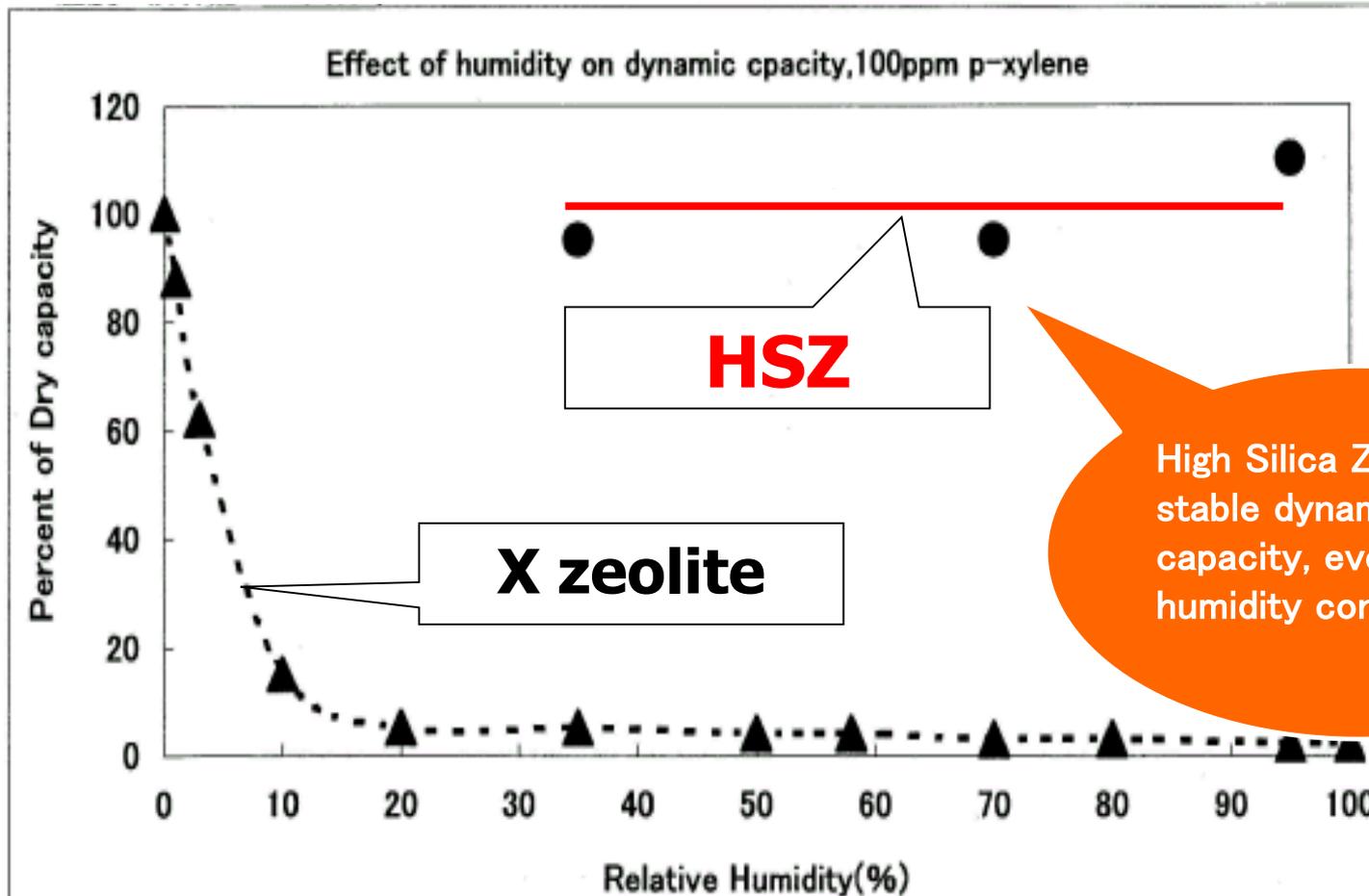
Grades for Industrial Use

type	shape	application	example
USKY-700 USKY-790	powder powder	largest size (0.9nm) and higher boiling point molecules	toluene, methyl isobutyl ketone larger molecular weight aldehydes, amines and organic chlorides
HiSiv 1000	powder 1/16 pellet	medium size (0.6-0.9nm) and higher boiling point molecules	toluene, methyl isobutyl ketone, larger molecular weight aldehydes, amines and organic chlorides
HiSiv 6000	powder	medium size (0.6-0.9nm) and polar molecules	ammonia, amines
HiSiv 3000 (most hydrophobic)	powder 1/16 pellet	smaller size (below 0.6nm) and lower boiling point molecules	methanol, ethanol, acetone, dichloromethane, ethylene, acetaldehyde toluene, styrene trimethylamine, ethyl mercaptan

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Humidity and Adsorption

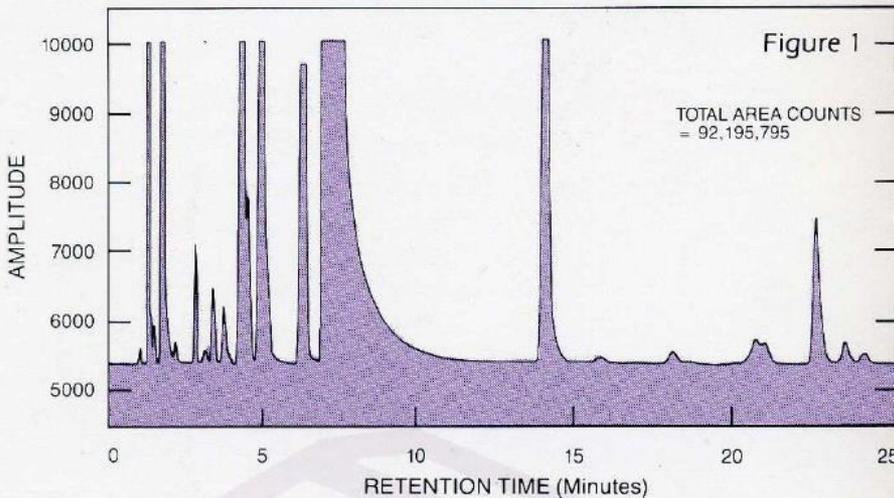


High Silica Zeolite has stable dynamic capacity, even at high humidity conditions.

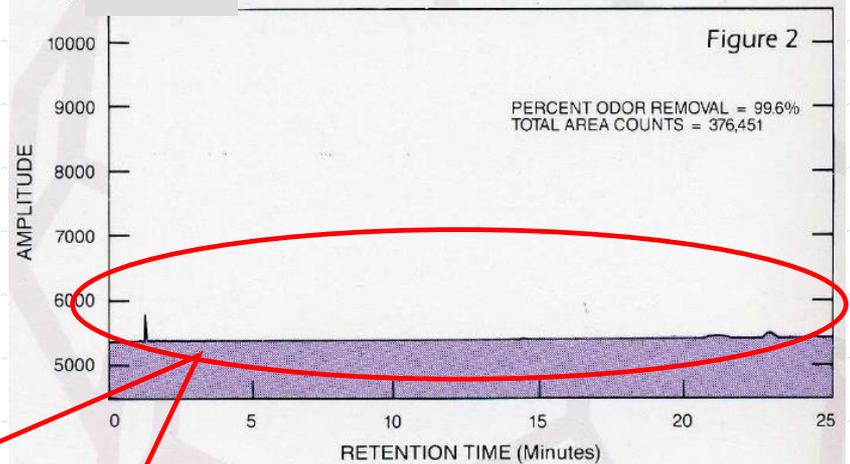
Performance of ABSCENTS

Treatment with ABSCENTS powder

CHROMATOGRAPH OF SYNTHETIC CAT URINE AT 35°C



CHROMATOGRAPH OF SYNTHETIC CAT URINE AND 0.5g ABSCENTS DEODORIZING POWDER AT 35°C



The synthetic cat urine was virtually undetectable via GC analysis.

Performance of ABSCENTS

Required weight of deodorizing powder in order to reduce Ammonia odor

Required Deodorizing Powder weight [g]



Performance of ABSCENTS

Deodorizing Rate of the odor in a bathroom[%]

