

Adsorbent·Solidifier·Fluidizer

Adsolider[®]

Adsolider[®] is fine powder of silicon dioxide, produced by liquid phase method. Very pure silica sand is used as a raw material. It differs from vapor phase processed product, Adsolider[®] has richer porous and larger internal specific surface area.



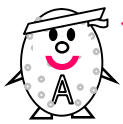
《Lineup》

There are 2 types of Adsolider[®]. One is Adsolider[®]-101 as Japanese Pharmacopoeia "Light Anhydrous Silicic Acid" and the other is Adsolider[®]-102 as Japanese Pharmaceutical Excipients "Hydrated Silicon Dioxide".

Type	Adsolider [®] -101	Adsolider [®] -102
Compendial	Japanese Pharmacopoeia 「Light Anhydrous Silicic Acid」	Japanese Pharmaceutical Excipients 「Hydrated Silicon Dioxide」
Mean diameter (μm)	3.2	5.0
Loss on drying (%)	2.6	0.8
Volume of oil adsorption (mL/100g)	310	95
pH	7.6	3.6
Volume test (mL/5g)	90	20
Specific Surface area (m^2/g)	300	700

*The above values are reference only.

《Features》



◆ **Improving fluidity**

In many cases, addition of 0.1~0.5% of Adsolider[®] enables to improve fluidity.
The optimal adding volume depends on the property of mixed powders.



◆ **Increase tablet hardness by addition of Adsolider[®]**

After adding Adsolider[®], the hardness of tablet is increased by 5~15%
without losing performance of disintegration.

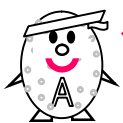
Compression force	Add volume	Adsolider [®] -101		Adsolider [®] -102	
		Hardness(N)	Disintegration time(sec)	Hardness(N)	Disintegration time(sec)
10kN	0%	54.7	34	54.7	34
	0.4%	58.8	30	65.2	36

※ Formulation of tablet: DILACTOSE[®]S (directly compressible lactose)/ cornstarch/
Microcrystalline cellulose/ acetaminophen/ magnesium stearate



◆ **Suitable for powderization of liquid**

Easy powderization by adding Adsolider[®] ratio of 0.5~1 to liquid-type API of 1.



◆ **pH of Adsolider[®]-101 is 6.0~8.0 around neutrality, and less interaction with API.**

Adsolider[®] hardly influences acid-sensitive API.