

# Compare to Barium sulphate

Barium sulphate is usually used for white paint of integrating sphere by its high reflection.

Our silicon paint has water proof, cost-benefit and is easy to be handled.

Item	Silicon paint	Barium sulphate paint
Spectral reflectivity	Reflect from 420nm to IR More than 90% at 550nm	Reflect from NUV to broad wavelength More than 95% at 550nm
Junction	Boundary line	It can be filled in the boundary with barium sulphate
Water resistance	It can be washed with water	Humidity is strictly prohibited
Humid resistance	-40~120 [°C]	Do not change temperature as it can
Impact resistance	It can be brought	It can be brought with attention Do not give a shock
Cost	Silicon paint costs a half of barium sulphate paint price	

※Spectral reflectivity is measured with the flat plate.

## Resistance of water and humidity



It can be used for temperature and humidity controlled test because silicon paint has strong resistance of water and temperature difference compared to barium sulphate paint. Moreover, it can be brought easily for impact resistance.

# Choose from 4 types



Model : SIS-300A  
Aperture : none



Model : SIS-300B  
Aperture :  $\phi$  102mm one point

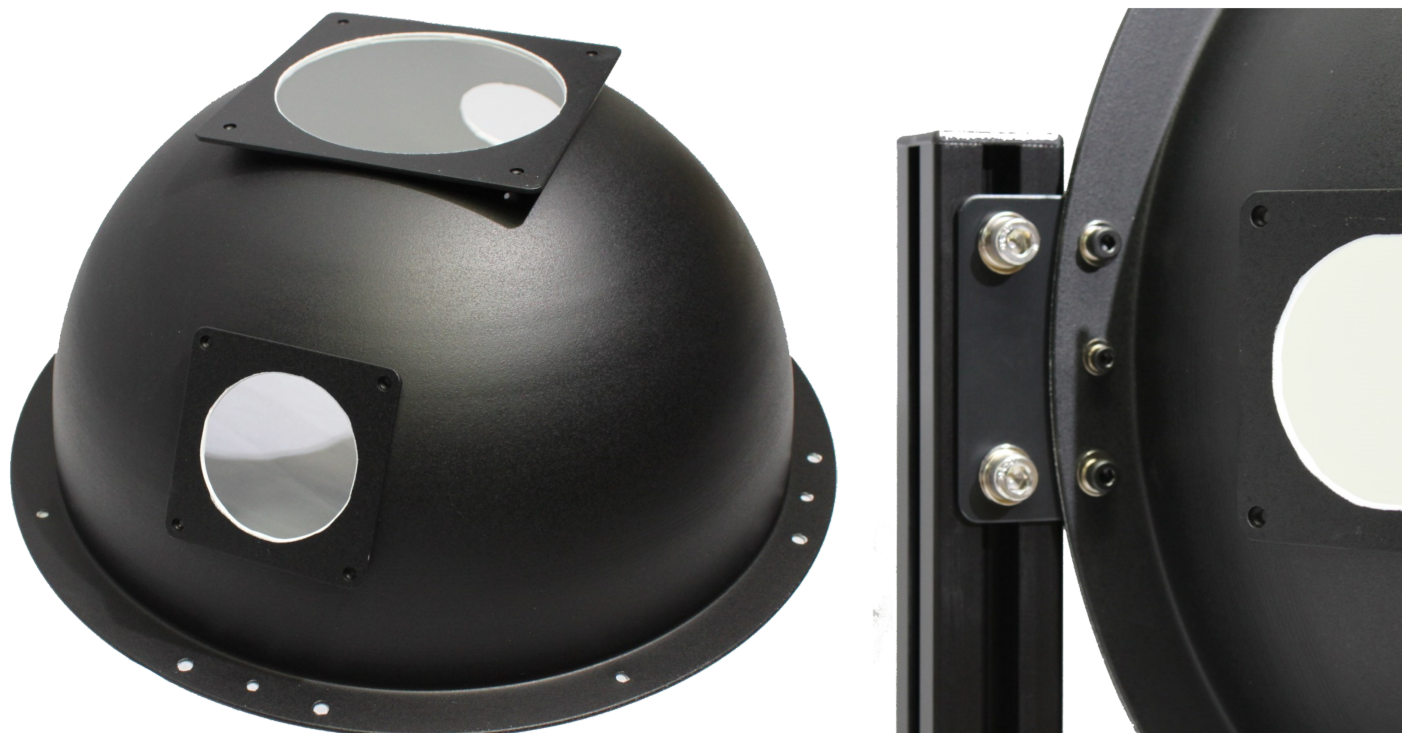


Model : SIS-300C  
Aperture :  $\phi$  52mm two points  
Position : 90 degree



Model : SIS-300D  
Aperture :  
 $\phi$  102mm one point  
 $\phi$  52mm two points  
Position :  $\phi$  52 at 120 degree

# Specifications of Integrating sphere



Item	Specification
Diameter/Docking	$\Phi 300$ [mm] (Excluding flange for docking) M3 press nut is attached on the flange part of only SIS-300A. Docking is fixed on 8 points with M3 screws.
Material	Aluminum; Integrating sphere, flat plate
Aperture flange part	M3 female screw at the flange part
Aperture diameter	Aperture (small): $\phi 52$ mm Aperture (big): $\phi 201$ mm ※Actual diameter is smaller by thickness of paint
Paint	Surface : Black texturing casting Internal surface : White silicon
Temperature	-40 ~ 140 [°C]
Temperature and humidity controlled test	It passed the test; 500 hours Temperature 85[°C] Humidity 85 [%]
Spectral reflectivity	More than 90% at 550nm ※Measure with a flat plate