

Sieving Aid SSA-58

NOTICE: Please refer to the Safety Data Sheet (SDS) for important safety information about the handling and use of this product. The SDS is available at <https://www.globalgilson.com/Content/Images/uploaded/pdf/product-manuals/sds-sieving-aid-ssa-58.pdf> or by contacting Gilson directly at 800.444.1508

- SSA-58 Sieving Aid is finely-powdered synthetic amorphous silicon dioxide and is considered chemically and biologically inert.
- Nominal particle size is 3 to 7 μ m.
- Bulk density is approximately 112kg/m³ (7lb/ft³).
- Typical dry purity is 99.6% SiO₂.
- This product contains no crystalline silica.
- This material is hygroscopic (absorbs water).
- SSA-58 is supplied in 1L containers, each tightly sealed to preserve freshness. **DO NOT** open a new container until the previous one has been depleted.
- Due to the small particle size and low bulk density, Sieving Aid must be handled carefully to avoid creation of airborne dust.

Sieving Aid is useful when sieving materials that are prone to agglomeration. Such materials often have particle sizes finer than No.50 (300 μ m) but can be as coarse as No.10 (2.00mm) or more. The addition of Sieving Aid to these materials prevents agglomeration from static attraction or high humidity, acts as a dehydrating agent and does not affect sieving results. The effect of the very small amount of mass added to the sample is offset by improved passage of material through the sieves. Sieving Aid must be thoroughly mixed into the sample material for greatest effectiveness.

The addition of 1 to 2% by weight of Sieving Aid to the sample is often adequate, but the optimum quantity must be determined experimentally. Thorough mixing completely coats the sample particles and prevents agglomeration of particles once sieving has begun. Samples prone to electrostatic buildup during agitation require more gentle mixing.

Selection of sieving equipment is important when working with problem materials. Gilson's GilSonic AutoSiever and GilSonic UltraSiever both use gentle sonic action and programmable con-

trols to permit the gentle buildup of sieving intensity. This allows separation of static-prone materials before agglomeration can take place. Common mechanical sieving devices with severe agitation and simple ON/OFF switches should be avoided.

Contact Gilson Company, Inc. Technical Support with questions at 800.444.1508 or e-mail us at techsupport@gilsonco.com.



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