

**TREATED FUMED SILICA**  
The Performance Additive for Toners



## **CAB-O-SIL® TG-818F**

**CAB-O-SIL® TG-818F** is a hexamethyldisilazane treated fumed silica which has been coated with a silicone oil. The hexamethyldisilazane replaces most surface silanols with trimethylsilyl groups which significantly increases hydrophobicity and reduces moisture adsorption.

Under very high humidity conditions, the few remaining silanol groups can adsorb moisture. The silicone oil covers the remaining silanols further decreasing moisture adsorption.

Adsorption of moisture on silica surface can cause agglomeration and reduce charging performance of toners.

The small mean particle size and narrow particle size distribution of TG-818F promotes better coverage of the toner particle surface with the silica giving excellent toner free-flow and anti-blocking performance.



### **Application Information:**

CAB-O-SIL TG-818F imparts a strong, uniform negative charge to toners comparable to TG-810G, a hexamethyldisilazane treated fumed silica. However, the silicone oil on the surface of TG-818F provides unique benefits. The lower moisture adsorption characteristic of TG-818F improves the humidity resistance of the toner enabling high quality images under highly humid operating conditions.

Silicone oil on the surface of TG-818F acts as a non-polar lubricant to prevent damage to the photoconductor by the cleaning blade. Damage to the photoconductor degrades image quality. The lubricity of the silicone oil on TG-818F can promote release of toner particle from the photoconductor and therefore improve print quality.





### Packaging Options:

CAB-O-SIL TG-818F is packaged in 5 kg multi-wall Kraft paper bags. To provide maximum protection from compaction of the product in shipment and storage 5 bags are packaged in cardboard cartons. Four cartons are unitized on a pallet to facilitate handling and maximize payload. The net weight of each pallet is 100 kg.

### Product Sales Specifications:

Sales specifications for this product may be obtained by contacting a sales or technical service manager at the Cabot Corporation office in your region.

### Material Safety Data Sheet:

A Material Safety Data Sheet for this product may be obtained by contacting the Cabot Corporation office in your region or can be downloaded from our website:

[www.cabot-corp.com](http://www.cabot-corp.com)

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