

CAB-O-SIL® TG-820F

CAB-O-SIL TG-820F is a hexamethyldisilazane (HMDZ) and cyclic silazane treated fumed silica. This surface treatment gives a positive tribocharge and makes the particle surface highly hydrophobic and reduces moisture adsorption.



Application Information:

CAB-O-SIL TG-820F imparts a positive charge to toners. The hydrophobic surface helps in providing stable tribocharging characteristics to the toner across a wide range of temperature and humidity conditions.

The controlled small mean particle size, approximately 10 µm, and narrow particle size distribution of TG-820F promotes better coverage of the toner particle surface with the silica and free flow properties.

Particle surface treatment and toner polymer also influence free flow performance. A range of surface treatments are available to optimize performance for each unique toner formulations.

CAB-O-SIL TG Treated Fumed Silica Performance Summary in Toners:

CAB-O-SIL grades	Base Silica (m ² /g)	Surface Chemistry	Free flow	Tribocharge	Hydrophobicity	Transferability
TG-308F	200	PDMS	Good	Strong negative	High	High
TG-709F	130	DiMeDi	Good	Slight negative	Low	Low
TG-810G	325	HMDZ	Excellent	Strong negative	High	Medium
TG-811F	325	HMDZ	Excellent	Negative	High	Medium
TG-818F	325	HMDZ/ PDMS	Very Good	Negative	Very High	High
TG-820F	325	HMDZ/ Cyclic	Very Good	Positive	Low	Medium
TG-822F	325	HMDZ/ Cyclic	Very Good	Slight positive	Low	Medium
TG-828F	325	HMDZ/ Cyclic	Very Good	Slight negative	Medium	Medium



Packaging Options:

CAB-O-SIL TG-820F 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

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