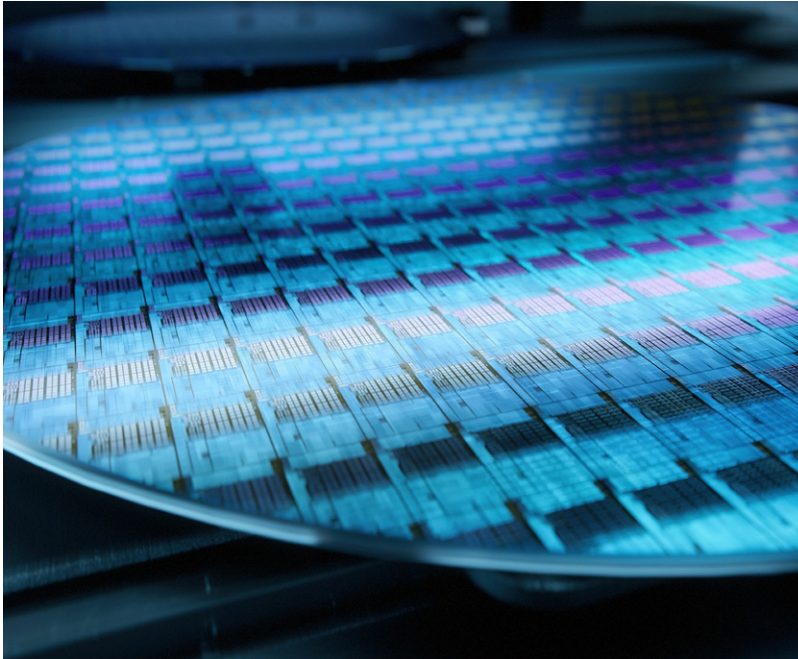


IDISIL® – Ultra-High Purity Colloidal Silica for Chemical Mechanical Planarization



Evonik's IDISIL® Colloidal Silica products were designed as abrasive particles for use in chemical mechanical planarization (CMP) slurries. The process that we use to manufacture this line of products

assures consistent properties and ultra-high purity suitable for use in the semiconductor industry. Our products are peanut shaped and come in sizes ranging from 50 to 125 nanometers.

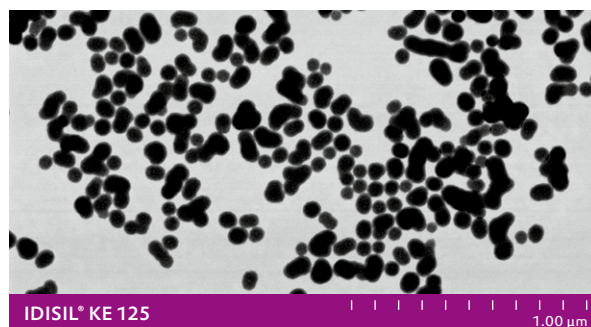
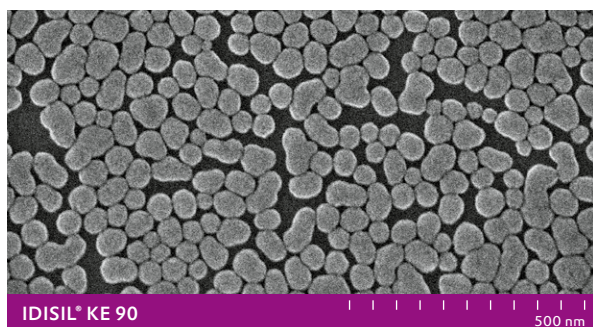
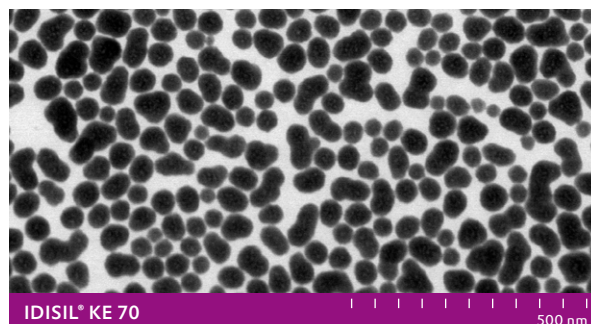
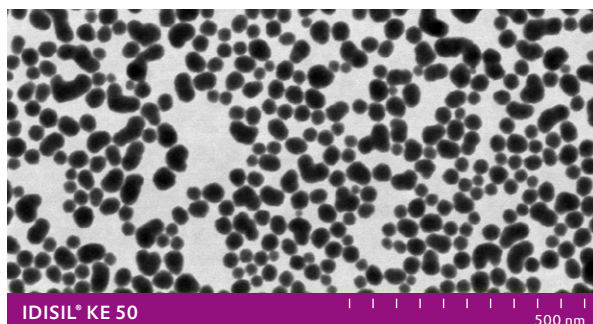
IDISIL® Colloidal Silica – At a Glance

PRODUCT CHARACTERISTICS		
Silane derived Stöber particles	Discrete, monodispersed	Repeatable density
Ultra-high purity (ppb metals)	High colloidal stability	Can be custom surface modified
High consistency	Peanut shaped	Backward integrated to Si precursor

Evonik Offers a Range of IDISIL® Products for CMP Slurry Abrasives

Properties	Unit	IDISIL® KE 50	IDISIL® KE 70	IDISIL® KE 90	IDISIL® KE 125
Particle Shape	-	Peanut	Peanut	Peanut	Peanut
pH (20 °C)	-	~10.3	~10.3	~10.2	~10.5
Silica Content	wt.%	20	20	20	20
Average Particle Size	Z avg in nm	50	70	90	125
Trace Metals	ppb	<300*	<300*	<300*	<300*

* For all metals other than potassium



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