



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号日月科技园

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安徽艾约塔硅油有限公司

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### TDS OF IOTA FINE SIL517 Silicon dioxide

IOTA FINE Silicon dioxide is a kind of superfine precipitated silicon dioxide (known as silica) made by special processing technology. It has excellent reinforcement and dispersion, many years of production practice shows that it can replace fully or partly of expensive fumed silica which has greatly reduce customers' production cost.

#### Main specifications and technical data

ITEM	IOTA FINE SIL517
SiO <sub>2</sub> (dried)	≥90
Moisture %	4-8
Sulphate %	≤1.0
PH Value	6.5-7.5
Iron Content mg/kg	≤300
BET m <sup>2</sup> /g	200-220
Partical Size	3μm
Packing	5kg
Others	Special processed

#### Silica for defoamer

IOTA FINE-SIL517 silica particles can enhance the defoaming effect of defoamer. In the defoaming agent, the antifoaming action needs to be strengthened by silica particles. The silica particles were brought to the air foam by silicone oil and water interface and enter the bubble film, due to its hydrophobicity, and surfactant foaming liquid droplet contact angle is greater than 90° , thereby forcing the foaming liquid from the solid surface by hydrophobic particles, causing rapid discharge, local bubble rupture. Thus, due to the synergistic effect, the two components produced a good defoaming effect. It



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is widely used in defoamer industry.

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