

SAE AS4059 Revision D

TABLE 1 - AS4059 Cleanliness Levels by Particle Count

		Maximum Contamination Limits (particles/100 mL)					
Size, ISO 4402 Calibration, or Optical Microscope Count*		> 1 µm	> 5 µm	> 15 µm	> 25 µm	> 50 µm	> 100 µm
Size, ISO 11171 Calibration or Electron Microscope**		> 4 µm(c)	> 6 µm(c)	> 14 µm(c)	> 21 µm(c)	> 38 µm(c)	> 70 µm(c)
Size Code		A	B	C	D	E	F
C L A S S E S	000	195	76	14	3	1	0
	00	390	152	27	5	1	0
	0	780	304	54	10	2	0
	1	1560	609	109	20	4	1
	2	3120	1220	217	39	7	1
	3	6250	2430	432	76	13	2
	4	12,500	4860	864	152	26	4
	5	25,000	9730	1730	306	53	8
	6	50,000	19,500	3460	612	106	16
	7	100,000	38,900	6920	1220	212	32
	8	200,000	77,900	13,900	2450	424	64
	9	400,000	156,000	27,700	4900	848	128
	10	800,000	311,000	55,400	9800	1700	256
	11	1,600,000	623,000	111,000	19,600	3390	512
	12	3,200,000	1,250,000	222,000	39,200	6780	1020

* Particle size based on longest dimension

** Particle size based on projected area equivalent diameter

上海罗湾实业有限公司

ShangHai LUWATECH Industrial Co.,Ltd

地址:上海浦东新区康桥东路333号9栋

TEL:13917337146 (微信) 021-58073569

E-mail:maorong.long@luowansy.com

<https://luwatech.1688.com>

<http://www.luowansy.com>

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