TECHNICAL DATA SHE

ANALYSTS, INC. A Bureau Veritas Group Company

The ISO 11171 **Cleanliness Code**

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The ISO 11171 Cleanliness Code simplifies the reporting of particle count data by converting particle count results into classes or codes. An increase from one code number to the next generally indicates that the particle contamination level has doubled. The example below illustrates how particle count results are assigned three ISO 11171 code numbers based on the total number of particles equal to or greater than a given size range.

	ISO Code	particle/1ml
	30	10,000,000
	29	5,000,000
	28	2,500,000
	27	1,300,000
Particle Distribution	26	640,000
	25	320,000
Total of ranges:	24	160,000
	23	80,000
>4µ to >70µ 31167		40,000
>6µ to >70µ 6650	21	20,000
>0µ 10 >10µ	20	10,000
>14µ to >70µ 316	19	5,000
	18	2,500
= ISO 22/20/15	17	1,300
	16	640
	15	320
These particle count results have been assigned an ISO Cleanliness Code of 22/20/15. The code number 22 represents 31,167 particles measuring >4 μ , the second code number 20 represents 6,650 particles	14	160
	13	80
	12	40
	11	20
measuring >6µ and the third code number 15 represents 316 particles	10	10
>14µ in size.	9	5
	8	2.5
	7	1.3
	6	0.64
	5	0.32
	4	0.16
	3	0.08
	2	0.04
	1	0.02
	0.9	0.01
	0.8	0.005
	0.7	0.0025