

ISO3650:1998 METRIC GAUGE BLOCK TOLERANCES

Tolerances									
NOMINAL		Calibration Grade K		Grade 0		Grade 1		Grade 2	
Over (mm)	Up to and including (mm)	Deviation of length from nominal length any point $\pm\mu\text{m}$	Variation in length μm	Deviation of length from nominal length any point $\pm\mu\text{m}$	Variation in length μm	Deviation of length from nominal length any point $\pm\mu\text{m}$	Variation in length μm	Deviation of length from nominal length any point $\pm\mu\text{m}$	Variation in length μm
0.5	10	0.2	0.05	0.12	0.1	0.2	0.16	0.45	0.3
10	25	0.3	0.05	0.14	0.1	0.3	0.16	0.6	0.3
25	50	0.4	0.06	0.2	0.1	0.4	0.18	0.8	0.3
50	75	0.5	0.06	0.25	0.12	0.5	0.18	1	0.35
75	100	0.6	0.07	0.3	0.12	0.6	0.2	1.2	0.35
100	150	0.8	0.08	0.4	0.14	0.8	0.2	1.6	0.4
150	200	1	0.09	0.5	0.16	1	0.25	2	0.4
200	250	1.2	0.1	0.6	0.16	1.2	0.25	2.4	0.45
250	300	1.4	0.1	0.7	0.18	1.4	0.25	2.8	0.5
300	400	1.8	0.12	0.9	0.2	1.8	0.3	3.6	0.5
400	500	2.2	0.14	1.1	0.25	2.2	0.35	4.4	0.6
500	600	2.6	0.16	1.3	0.25	2.6	0.4	5	0.7
600	700	3	0.18	1.5	0.3	3	0.45	6	0.7
700	800	3.4	0.2	1.7	0.3	3.4	0.5	6.5	0.8
800	900	3.8	0.2	1.9	0.35	3.8	0.5	7.5	0.9
900	1000	4.2	0.25	2	0.4	4.2	0.6	8	1

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Tolerances									
Nominal Length		Calibration Grade K		Grade 0		Grade 1		Grade 2	
Range	Deviation of length from nominal length any point $\pm\text{te } \mu\text{in}$	Variation in length $\text{tv } \mu\text{in}$	Deviation of length from nominal length any point $\pm\text{te } \mu\text{in}$	Variation in length $\text{tv } \mu\text{in}$	Deviation of length from nominal length any point $\pm\text{te } \mu\text{in}$	Variation in length $\text{tv } \mu\text{in}$	Deviation of length from nominal length any point $\pm\text{te } \mu\text{in}$	Variation in length $\text{tv } \mu\text{in}$	
$0 \leq \text{In} \leq 0.4$	8	2	5	4	8	6	18	12	
$0.4 \leq \text{In} \leq 1$	12	2	6	4	12	6	24	12	
$1 < \text{In} \leq 2$	16	3	8	4	16	7	32	12	
$2 < \text{In} \leq 3$	20	3	10	5	20	7	40	14	
$3 < \text{In} \leq 4$	24	3	12	5	24	8	48	14	