General tolerances - Part 1: Tolerances for linear and angular dimensions without individual tolerance indications

Alteams

According to ISO 2768-1:1989, EN 22768-1:1993

Permissible deviations for linear dimensions except for broken edges

Tolerance class		Permissible deviations for basic size range							
Designation	Description	0.5* up to 3	over 3 up to 6	over 6 up to 30	over 30 up to 120	over 120 up to 400	over 400 up to 1000	over 1000 up to 2000	over 2000 up to 4000
f	fine	± 0.05	± 0.05	± 0.1	± 0.15	± 0.2	± 0.3	± 0.5	-
m	medium	± 0.1	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
c	coarse	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3	± 4
v	very coarse	-	± 0.5	± 1	± 1.5	± 2.5	± 4	± 6	± 8

** For nominal sizes below 0.5mm, the deviations shall be indicated adjacent to the relevant nominal size(s).*

Values in millimeters

Permissible deviations for broken edges (external radii and chamfer heights)

Tolerance class		Permissible deviations for basic size range		
Designation	Description	0.5* up to 3	over 3 up to 6	over 6
f	fine	± 0.2	± 0.5	± 1
m	medium			
c	coarse	± 0.4	± 1	± 2
v	very coarse			

** For nominal sizes below 0.5mm, the deviations shall be indicated adjacent to the relevant nominal size(s).*

Values in millimeters

Permissible deviations of angular dimensions

Tolerance class		Permissible deviations for ranges of lengths, in millimeters, of the shorter side of the angle concerned				
Designation	Description	up to 10	over 10 up to 50	over 50 up to 120	over 120 up to 400	over 400
f	fine	± 1°	± 0°30′	± 0°20′	± 0°10′	± 0°50′
m	medium					
c	coarse	± 1°30′	± 1°	± 0°30′	± 0°15′	± 0°10′
v	very coarse	± 3°	± 3°	± 1°	± 0°30′	± 0°20′