

ISO 286 Tolerances for stainless steel bar

TOLERANCES

~ The ISO tolerances shown are taken from ISO 286.

CONTACT

Address:	Please make contact directly with your local service centre, which can be found via the Locations page of our web site.
Web:	www.amari-ireland.com

REVISION HISTORY

Datasheet Updated	18 July 2019
-------------------	--------------

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards.

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied.

Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.

Diameters (mm)	Tolerance in mm for given Tolerance Number							
	6	7	8	9	10	11	12	13
> 1 – 3 inc.	0.007	0.009	0.014	0.025	0.040	0.060	0.090	0.140
> 3 – 6 inc.	0.008	0.012	0.018	0.030	0.048	0.075	0.120	0.180
> 6 – 10 inc.	0.009	0.015	0.022	0.036	0.058	0.090	0.150	0.220
> 10 – 18 inc.	0.011	0.018	0.027	0.043	0.070	0.110	0.180	0.270
> 18 – 30 inc.	0.013	0.021	0.033	0.052	0.084	0.130	0.210	0.330
> 30 – 50 inc.	0.016	0.025	0.039	0.062	0.100	0.160	0.250	0.390
> 50 – 80 inc.	0.019		0.046	0.074	0.120	0.190	0.300	0.460
> 80 – 120 inc.	0.022			0.087	0.140	0.220	0.350	0.540
> 120 – 180 inc.	0.025			0.100	0.160	0.250	0.400	0.630
> 180 – 250 inc.				0.115	0.185	0.290	0.460	0.720
> 250 – 315 inc.						0.320	0.520	0.810
> 315 – 400 inc.						0.360	0.570	0.890
> 400 – 500 inc..						0.400	0.630	0.970
> 500						0.440	0.700	1.100

EXAMPLES:

H = All Minus tolerance e.g. 45 mm dia **H9** = + 0 / - 0.062

J = Tolerance divided e.g. 45 mm dia **J9** = + / - 0.031

K = All Plus tolerance e.g. 45 mm dia **K9** = + 0.062 / - 0
The K tolerance is usually only applied to larger diameter bars (Over 75mm)

H8 = Precision Ground

H9 = Bright Drawn

H10 = Smooth Turned