



GOST:2524-70

HEXAGON NUTS WITH REDUCED WIDTH

ACROSS FLAT (IMPROVED ACCURACY)

CONSTRUCTION & DIMENSIONS.

NOTE :- DO NOT SCRIBBLE IN THE SPECIFICATION.

10

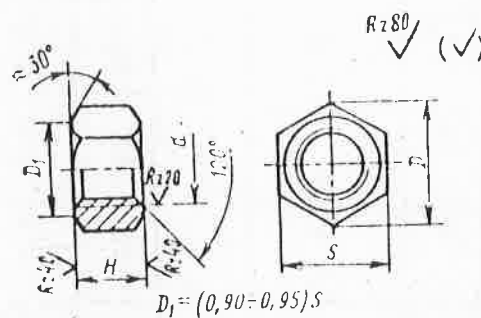
USSR STATE STANDARD

Hexagon nuts with reduced width across flats
 (Improved accuracy)
 Construction and Dimensions

GOST 2524-70
 This supersedes
 GOST 2524-62

Valid from 01.01.1972.

1. The present standard relates to hexagon nuts of improved accuracy with reduced width across flats.



Издание официальное

Перепечатка воспрещена

• Переиздание ноябрь 1980 г. с Изменением № 2,
 утвержденным в феврале 1974 г. (ИУС № 3-1974 г.)

105

The requirements of the CЭB recommendations PC 170-70, PC 309-65, PC 376-65 and PC 792-67 on standardisation have been taken into account in this standard.

2. Construction and dimensions of nuts must conform to those shown in the drawing and in the Table.

Dimensions in mm

	8	10	12	(14)	16	(18)	20	(22)	24	(27)	30	36	42	45
Nominal thread diameter d	8	10	12	(14)	16	(18)	20	(22)	24	(27)	30	36	42	45
Thread pitch	Coarse	1.25	1.5	1.75	2	2.5	2.5	2.5	3	3	3.5	4	4.5	5
	Fine	1	1.25	1.25	1.5	1.5	1.5	1.5	2	2	2	3	3	3
Width across flats S	Nominal	12	14	17	19	22	24	27	30	32	41	50	60	70
	Tolerance		-0.24				-0.28				-0.34			-0.40
Width across corners D, not less than		13.2	15.5	18.9	21.1	24.5	26.8	30.2	33.6	35.8	40.3	45.9	56.1	67.4
														78.5
Height H	Nominal	6.5	8	10	11	13	15	16	19	22	24	29	34	35
	Tolerance		-0.36				-0.43				-0.52			-0.62
Maximum displacement of hole centre line with respect to sides.			0.30			0.35					0.40			0.50

Note: Dimensions of nuts given in brackets are not recommended to be used.

Annexure to GOST 2524-70

Reference

Weights of coarse pitch steel nuts

Nominal thread diameter d, mm	Theoretical weight of 1000 nos. nuts, kg ≈	Nominal thread diameter d, mm	Theoretical weight of 1000 nos. nuts, kg ≈
8	4,070	22	60,480
10	6,256	24	71,170
12	10,350	27	102,500
14	15,100	30	151,400
16	24,020	36	277,300
18	31,980	42	754,700
20	43,330	48	764,500

• signifies decimal point

Note: Weights indicated in the Table are to be multiplied by 0.356 for aluminium alloy and by 1.080 for brass.

REVISION No. TO GOST 2524-70

Hexagon nuts with reduced width across flats (Improved accuracy)

Construction and Dimensions

Valid from 01.07.1981

Clause 2. Drawing. Amend designations:

$R_z 80$ to 12.5 ; $R_z 40$ to 6.3 ; $R_z 20$ to 3.2
 $\approx 30^\circ$ to $15 \dots 30^\circ$

Parameter "Height H": Amend the word "tolerance" to "Tolerance h14".

Parameter "Width across flats S": Amend the word "Tolerance" to "Tolerance h13".

Replace the parameter "Maximum displacement of hole centre line with respect to sides" with the new version:

"Allowance in symmetry of width across flats with respect to hole in diametral expression 21T13".

Amend values of allowances in symmetry:

0.30 to 0.54; 0.35 to 0.66; 0.40 to 0.78; 0.50 to 0.92.

Amend values of tolerances:

-0.24 to -0.27; -0.28 to -0.33; -0.34 to -0.39; -0.40 to -0.46.

Example of conventional designation: Amend M12.6H to M12-6H;

1.25.6H to 1.25-6H.

Add new clause 8.

"8. Nuts may, with customer's concurrence, be made to tolerance given in the reference annexure No. 2, if it becomes necessary to provide interchangeability for use in articles designed before 01.01.1980."

Add annexure 2

Annexure 2

Reference

Tolerance Zones for hexagonal nuts

In OCT System	In EC Δn C Δ B System
B ₅	h13
B ₇	h14