
**HEXAGONAL NUTS WITH REDUCED
WIDTH ACROSS FLATS
CLASS OF ACCURACY A**

Design and dimensions

GOST 2524-70

Translated by:
M/s SWYAZ
2/453, Viram Khand, Gomti Nagar
Lucknow – 226010
☎: 0522-3098139 / 2345145
Visit us:
<http://www.swyaz.com>

I N T E R S T A T E S T A N D A R D

**HEXAGONAL NUTS WITH REDUCED
WIDTH ACROSS FLATS
CLASS OF ACCURACY A**

**GOST
2524-70**

Design and dimensions

OKII 12 8300

Date of introduction 01.01.72

1. The present standard pertains to hexagonal nuts with reduced width across flats of class of accuracy A with diameter of thread from 8 to 48 mm.

(Amended edition, amendment No. 4).

2. Design and dimensions of the nut should correspond to those specified in the drawing and in table.

(Amended edition, amendment No. 2-7).

3. Thread – as per GOST 24705.

(Amended edition, amendment No. 2, 4).

3a. Tolerances of dimensions, deviation of the shapes and location of the surface and inspection methods as per GOST 1759.1 are not set in this standard.

3б. Permissible defects of surface of the nuts and inspection methods as per GOST 1759.3.

3a, 3б. **(Introduced additionally, amendment No. 5).**

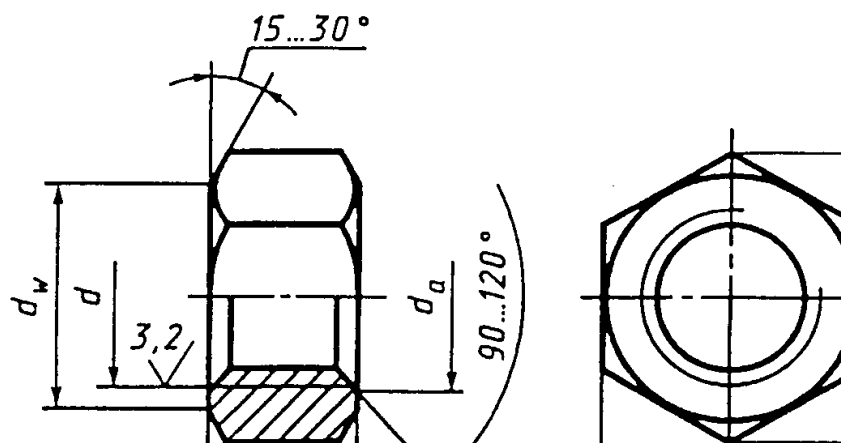
4. **(Deleted, amendment No. 5).**

5. Technical requirement – as per GOST 1759.0.

6. **(Deleted, amendment No. 2).**

7. Weight of the nut shown in annexure 1.

8. **(Deleted, amendment No. 4).**



		MM											
Nominal diameter of thread, d or thread		8	10	12	(14)	16	(18)	20	(22)	24	(27)	30	
Pitch of thread	Coarse	1,25	1,5	1,75	2		2,5		3		3,5		
	Width across flats, S	1	1,25		1,5				2				
Diameter of circumscribed circle, e , not less than		e^a S	12	14	17	19	22	24	27	30	32	36	41
Diameter of inscribed circle e , not less than			13,3	15,5	18,9	21,1	24,5	26,8	30,1	33,5	35,7	40,0	45,
d_a	not less than		8	10	12	14	16	18	20	22	24	27	30
	not more than		8,75	10,8	13,0	15,1	17,3	19,4	21,6	23,8	25,9	29,2	32,

Note. Dimensions of nuts, written in bracket are not recommended to use.

Example of conventional code of nuts with diameter of the thread $d = 12$ mm, for coarse pitch of threads with tolerance zone 6H, class of accuracy 5, without coating:

Nut M12 – 6H.5 GOST 2524-70

Also, for coarse pitch of thread with tolerance zone 6H, class of accuracy 6, from steel grade A12, without coating:

Nut M12 – 6H.6A GOST 2524-70

Also, for fine pitch of thread with tolerance zone 6H, class of accuracy 12, from steel grade 40X, with coating 01 of thickness 6 microns:

Nut M12 X 1.25 – 6H.12.40X.016 GOST 2524-70

APPENDIX 1
Reference**Weight of steel nuts with coarse pitch of threads**

Nominal diameter of threads d , MM	Theoretical mass of 1000 piece of nut kg \approx	Nominal diameter of threads d , MM	Theoretical mass of 1000 piece of nut kg \approx	Nominal diameter of threads d , MM
8	4,070	18	31,980	30
10	6,256	20	43,330	36
12	10,350	22	60,480	42
14	15,100	24	71,170	48

For determinations of weight of nut of other materials, the value of weight specified in table should be multiplied with coefficient: 0.356 – for aluminum alloy; 1.080 – for brass.

APPENDIX 1. (Amended edition, amendment No. 6, 7).

APPENDIX 1. (Deleted, amendment No. 7).

SUPERSEDES GOST 2524-70**REFERENCE OF NORMATIVE- TECHNICAL DOCUMENTS**

Code of HTД on which reference is given	Point Number	Code of HTД on which reference is given	Point Number
GOST 1759.0-87	5	GOST 1759.3-83	36
GOST 1759.1-82	3a	GOST 24705-81	3

REPRINTED with amendment No. 2, 3, 4, 5, 6, 7, certified in February 1974, Match 1981, June 1983, May 1985, March 1989, July 1995 (ИYC 3-74, 6-81, 11-83, 8-85, 6-89, 9-95).