INTERNATIONAL STANDARD

ISO 8735

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Parallel pins with internal thread, hardened

Goupilles cylindriques à trou taraudé, trempées

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 8735:1987 https://standards.iteh.ai/catalog/standards/sist/44ee1e71-97b5-4b1a-94d2-8064ce496841/iso-8735-1987

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8735 was prepared by Technical Committee ISO/TC 2, Fasteners. (standards.iteh.ai)

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

8064ce496841/iso-8735-1987

Parallel pins with internal thread, hardened

iTeh STANDARD PREVIEW (standards.iteh.ai) Scope and field of application

This International Standard specifies the characteristics of through hardened and case hardened parallel pins with internal thread, metric dimensions and nominal diameters, d_1 , from 6 to 50 mm inclusive 0.87

2 References

ISO 965, ISO general purpose metric screw threads - Tolerances.

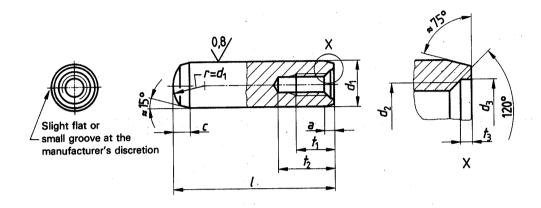
ISO 3269, Fasteners - Acceptance inspection.

ISO 4520, Chromate conversion coatings on electroplated zinc and cadmium coatings.

3 Dimensions

Surface roughness values in micrometres

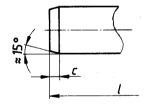
Type A
Pin with crown, through hardened



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Type B Flat pin, case hardened

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NOTE - Other dimensions, see type A.

Dimensions in millimetres

									<u> </u>	Dilli	ensions in	millimetres
<i>d</i> ₁		m6 ¹⁾	6	8	10	12	16	20	25	30	40	50
а		*	0,8	1	1,2	1,6	2	2,5	3	4	5	6,3
С			2,1	2,6	3	3,8	4,6	6	6	7	8	10
d_2			M4	M5	M6	M6	M8	M10	M16	M20	M20	M24
$P^{2)}$			0,7	0,8	1	1	1,25	1,5	2	2,5	2,5	3
d_3			4,3	5,3	6,4	6,4	8,4	10,5	17	21	21	25
<i>t</i> ₁			6	8	10	12	16	18	24	30	30	36
t ₂		min.	10	12	16	20	25	28	35	40	40	50
<i>t</i> ₃		et la tra	1	1,2	1,2	1,2	1,5	1,5	2	2	2,5	2,5
nom.	/ ³⁾ min.	max.										
16 18 20	15,5 17,5 19,5	16,5 18,5 20,5										
22 24 26	21,5 23,5 25,5	22,5 24,5 26,5									:	
28 30 32	27,5 29,5 31,5	28,5 30,5 32,5		Range								
35 40 45	34,5 39,5 44,5	35,5 40,5 45,5	Геh S	STAI	NDA	of RD I	PREV	ZIEV	V			
50 55 60	49,5 54,25 59,25	50,5 55,75 60,75		(stan	idaro	ls.ite	h.ai)					
65 70 75	64,25 69,25 74,25	65,75 70,75 75, 7 5 _S :/	standards	iteh.ai/cata	<u>ISO 87.</u> log/standa	1		commercia b5-4b1a-				
80 85 90	79,25 84,25 89,25	80,75 85,75 90,75		8064	ce496841	iso-8735-	1987					·
95 100 120	94,25 99,25 119,25	95,75 100,75 120,75								lengths		
140 160 180 200	139,25 159,25 179,25 199,25	140,75 160,75 180,75 200,75										

¹⁾ Other tolerances as agreed between customer and supplier.

²⁾ P = pitch of the thread.

³⁾ For nominal lengths above 200 mm, steps of 20 mm.

4 Specifications and reference International Standards

Screw thread	Metric screw thread with tolerance class 6H to ISO 965.										
	St = steel meeting the following analyses $[\% (m/m)]$:										
	Type A	Type B									
Material ¹⁾	C 0,95 to 1,1 Si 0,15 to 0,35 Mn 0,25 to 0,4 P 0,03 max. S 0,025 max. Cr 1,35 to 1,65	C 0,06 to 0,13 C 0,15 max. Si 0,1 to 0,4 Si 0,10 max. Mn 0,25 to 0,6 Mn 0,9 to 1,3 P 0,025 max. P 0,07 max. S 0,05 max. S 0,15 to 0,35 Pb 0,15 to 0,35 at the supplier's option									
	Hardness : 550 to 650 HV30	Surface hardness: 600 to 700 HV1 Hardness at case depth 0,25 to 0,4 mm: 550 HV1 min.									
Surface finish	Plain, i.e. pins to be supplied in natural finish, treated with a protective lubricant, unless otherwise specified by agreement between customer and supplier. Appropriate plating or coating processes should be employed to avoid hydrogen embrittlement. When pins are electroplated or phosphate-coated, they shall be suitably treated immediately after plating or coating to obviate detrimental hydrogen embrittlement.										
	Preferred coatings are chemical black oxide or non-electrolytic zinc plating with chromate conversion coating (see ISO 4520). Other coatings as agreed between customer and supplier. All tolerances shall apply prior to the application of a plating or coating.										
Workmanship	Parts shall be uniform in quality and free of irregularities or detrimental defects. No burns shall appear on any part of the pin.										
Acceptability	ty The acceptance procedure is covered in ISO 3269.										

¹⁾ Other materials as agreed between customer and supplier.

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5 Designation

Example for the designation of a through hardened steel parallel pin, type A, with internal thread, nominal diameter d=6 mm and nominal length l=30 mm :

Parallel pin ISO 8735 - 6 × 30 - A - St

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ISO 8735 : 1987 (E)

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UDC 621.886.115

Descriptors: fasteners, pins (mechanics), straight pins, specifications, dimensions, designation.

Price based on 4 pages