DRAFT AMENDMENT ISO 1832:1991/DAM 2



ISO/TC 29/SC 9

Secretariat: **DIN**

Voting begins on 2002-07-25

Voting terminates on 2002-12-25

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • MEXCHAPODHAR OPFAHUSALURI PO CTAHDAPTUSALURI • ORGANISATION INTERNATIONALE DE NORMALISATION

Indexable inserts for cutting tools — Designation

AMENDMENT 2: Designation symbols

Plaquettes amovibles pour outils coupants - Désignation

AMENDEMENT 2: Symboles de désignation

ICS 25.100.01

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 1832:1991/DAmd 2 https://standards.iteh.ai/catalog/standards/sist/3ccf98ee-7d5d-49ca-879adf4a51fb1a85/iso-1832-1991-damd-2

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Foreword

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Amendment 2 to International Standard ISO 1832:1991 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 9, *Tools with cutting edges made of hard cutting materials*.

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Indexable inserts for cutting tools — Designation

AMENDMENT 2: Designation symbols

1 Scope

This Draft Amendment specifies the designation symbols for cubic boron nitride (BN) inserts, tipped and solid as well as polycrystalline diamond (DP) inserts, tipped.

At a later date, this amendment shall be incorporated in the fourth edition of ISO 1832.

2 Explanation of designation code

Desigr	ation of insert for turning	5	Ν	М	Α	15	06	08	Е		(N)	_	в	L	_	
Desigr	ation of insert for milling T iTeh	r D S	P ②	G ③	T (4) D A	16 ⑤ R	тз 6	AP ⑦ R		01520 10 E W	R ⑨	—	М 1)	028 ②	_	 3
() (2) (3) (4) (5) (6) (7)	Letter symbol identifying Letter symbol identifying Letter symbol identifyingtps://standar Letter symbol indicating Number symbol identifying Number of symbol identifying Letter or number symbol identifying	no dstöl d fix ins ins	ormal lerand l[4a51 king a sert s sert tl	clear cetcla fb1a8 nd/or ize hickne	ance 1832:1 s/stand 35/iso- chip b	<u>991/E</u> lards/s	1991- rs	<u>2</u> :f98e	Comp c-symb d-indexa (acco	oulsory olsfor-879 able inserts rding to 832:1991)				Compu symbol tipped i	s for	,
8ª (9)ª (10) ^b (11)	Letter symbol indicating Letter symbol identifying Number symbol identifying Letter symbol identifying	cu cu siz sty ed co	Itting Itting ze of o yle of Ige ar orners	edge direct cutting tippe nd nur	condit tion g edge d or se nber c	e cond olid cu of tippe	lition Itting ed	Ţ			See	e 3.1 e 3.2		except	as note	∍d
12 13ª	Letter or number symbol identifying Manufacturer's symbol	ler	ngth c	of tipp	ed cui	ting e	dge				See	e 3.3	J			

(B)^a Manufacturer's symbol

^a optional symbols for indexable and tipped inserts
 ^b optional symbol for tipped inserts

3 Optional Symbols

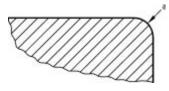
3.1 Size of cutting edge condition

Maximum is a 5 digit number symbol dependent on the cutting edge condition

3.1.1 E = rounded

no coding of the size

EXAMPLE SNMA150608E



Honing

а

— reference 0

Figure 1

3.1.2 T = chamfered

5 digit numbe	er symbol			$-b_g$ - T-land size in 1/100 mm	3 digit
				— g, — T-land angle	2 digit
Symbol	b_{g}	Symbol	STAN	IDARD PREVIEW	
005	0,05	05	5°	dards.iteh.ai)	
010	0,10	10	10-211	uarus.iten.ai)	
015	0,15	15	15°	, b _y	
020	0,20	20	20° <u>ISC</u>	<u>1832:1991/DAmd 2</u>	-
025	0,25	htt 25 //stand		og/standards/sist/3ccf98ee-7d5849ca-879a-	
030	0,30	30	30 851fb1	a85/iso-1832-1991-dand/2/////////	~
050	0,50			\//////////////////////////////////////	1
070	0,70			~~~~~	
100	1,00				1
150	1,50				
200	2,00			Figure 2	

EXAMPLE SNMA150608<u>T05020</u>

3.1.3 S = chamfered and rounded

5 digit number symbol

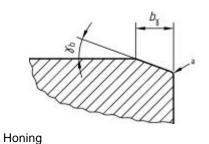
$$-b_g$$
 — T-land size in 1/100 mm 3 digit

$$-g_{p}$$
 — T-land angle 2 digit

а

no code

Symbol	b_{g}	Symbol	g_{b}
005	0,05	05	5°
010	0,10	10	10°
015	0,15	15	15°
020	0,20	20	20°
025	0,25	25	25°
030	0,30	30	30°
050	0,50		
070	0,70		
100	1,00		
150	1,50		
200	2,00		





EXAMPLE SNMA150608<u>S05020</u>

3.1.4 K = double chamfered 1 Teh STANDARD PREVIEW 5 digit number symbol $\frac{b_{g1}}{t_{1}} = T_{1}$ and size in 1/100 mm (standards.iteh.al)

3 digit

- g₅₁ - T-land angle <u>ISO 1832:1991/DAmd 2</u> https://standards.iteh.ai/catalog/sta/bgrcks/gg2tdependention-bgrck/gg3adf4a51fb1a85/iso-1832-1991-damd-2

Symbol	b g 1	g ₀₁	b g 2	g _{b2}
05015	0,50	15°	0,10	30°
07015	0,70	15°	0,15	30°
10015	1,00	15°	0,20	30°
15010	1,50	10°	0,25	30°
20010	2,00	10°	0,25	30°

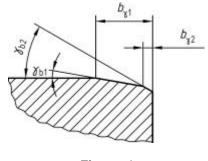


Figure 4

EXAMPLE SNMA150608K15010

3.1.5 P = double chamfered and rounded

5 digit number symbol

$$-b_{g1}$$
 - T-land size in 1/100 mm 3 digit

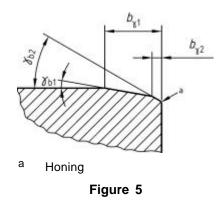
$$-g_{b1}$$
 — T-land angle 2 digit

— $b g_2 imes g_{b2}$ dependent on $b_{g1} imes g_{b1}$

- rounding

no code

Symbol	b g 1	g ₀₁	b g 2	g ₀₂
05015	0,50	15°	0,10	30°
07015	0,70	15°	0,15	30°
10015	1,00	15°	0,20	30°
15010	1,50	10°	0,25	30°
20010	2,00	10°	0,25	30°



EXAMPLE

SNMA150608P15010

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3.2 Style of tipped or solid cutting edge and number of tipped corners

1 digit letter symbol

- reference 1

Symbol	Picture	Description
s		solid
F		full face — one-sided
E		full face — two-sided
А		tipped — one-sided — one corner
В		PREVIEW tipped — one sided — two corners
с	https://standard.iteh.ai/catalograndards/sist/3 df4a54557so-1832-199	<u>d 2</u> ccf98ecd7 <u>d5d-49ca-879a-</u> tipped 1-damd-2
D		tipped — one sided — four corners
G		tipped — one sided — five corners
н		tipped — one sided — six corners
J		tipped — one sided — eight corners
к		tipped — two sided — one corner
L		tipped — two sided — two corners