General Information of Grinding Wheels

How To Order

When ordering KINIK standard grinding wheels, specify your selection in this order:

- 1. Wheel Shape and Face
- 2. Dimensions
 - (1) Diameter (D)
 - (2) Thickness (T)
 - (3) Hole Size (H)
- 3. Wheel Specifications
 - (1) Abrasive
 - (2) Grit Size
 - (3) Grade
 - (4) Bond
- 4. Quantity

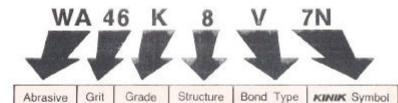
Note: Wheels are available in both metric & imperial dimensions.

■ Standard Wheel Markings

For clarity as well as to avoid mistakes in wheel selection, a standard designation of wheel specification was developed and was inscribed by ISO in 1965. Standards such as CNS

of West Germany all employ this uniform standard.

A typical wheel marking includes the following information:



Abrasive

Bond Type

Symbols	Characteristics	Symbols	Characteristics				
Α	Regular aluminum oxide abrasive, hard and tough.		Most common bond for precision grinding porosity and strength. Wheel made with this bond give high stock				
10A	The premium quality of aluminum oxide abrasive.	V	removal and their rigidity helps to attain high precision.				
WA, 38A	White aluminum oxide abrasive, hard and brittle.	(Vitrified)	Not affected by water, acid, oils or ordinary temperature variations.				
FA,57A	Semi-friable,aluminum oxide abrasive.		Market Control of the				
32A,SA	Strong sharp monocrystalline aluminum oxide abrasive.		Used for wheels in fabrication shops, foundries, bille shops, sharpening and gumming saws, and in many				
PA	Pink aluminum oxide abrasive.	B (Resinoid)	precision applications. These wheels excel in rapid stock removal as well as in applications requiring better finishes				
RA	Ruby aluminum oxide abrasive.		This bond is also restricted to reinforced resincid productut-off wheels, and for snagging with portable grinders.				
PSA	A blend of PA and SA abrasive.						
FSA	A blend of FA and SA abrasive.	R (Rubber)	Mainly used for centerless feed wheels & precision ball race grinding wheels.				
AZ	A modified high zirconia aluminum oxide.						
С	Black silicon carbide.	MG	A notable bond used for cutlery or particularly thin				
GC	Green silicon carbide.	(Magnesia	workpieces, marble surface grinding and superfinishing.				
KG	Micro-crystalline abrasive used primarily for precision grinding of difficult- to-grind steels and alloys.	Oxychloride)					

Note: Above abrasives may be used in combination to generate Note; The KINIK symbol designates a variation or modification characteristics for particular applications.

of bond and other characteristics of the wheel.

Grades: Grade indicates the relative strength of the bond which holds the abrasive grain in place.

	Very	soft	4		➤ S	oft -	4	-	Med	dium	4		► HE	ard	4	-	-	Ve	ery Ha	ird		
D.	E.	F.	G.	H.	1.	J.	K.	L.,	M.	N.	Ο.	P.	Q.	R.	S.	T.	U.	V.	W.	Χ.	Υ.	Z

Grits (CNS & JIS Standard)

	Coa	rse	Medium					Very	Fine		Ultra Fine						
#10	12	14	30	36	46	70	80	90	100	240	280	320	400	1000	1200	1500	2000
16	20	24	54	60		120	150	180	550	500	600	700	800	2500	3000	4000	6000

Structures

Symbol No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Abrasive Ratio %	62	60	58	56	54	52	50	48	46	44	42	40	38	36	34