

		Toison D'or®	Woodless	Woodless Aquarell	Gioconda® Aquarell	Triograph®	Magnum Black Star®	Mephisto®	Artist Blocks	2mm Leads	5.6mm Leads
9B			✓								
8B		✓	✓								
7B		✓									
6B		✓	✓		✓	✓			✓		
5B		✓									
4B		✓	✓	✓	✓	✓			✓	✓	✓
3B		✓								✓	
2B		✓	✓		✓	✓		✓	✓	✓	
B		✓								✓	
HB		✓	✓				✓			✓	
F		✓								✓	
H		✓								✓	
2H		✓								✓	
3H		✓								✓	
4H		✓								✓	
5H		✓									
6H		✓									
7H		✓									
8H		✓									
9H		✓									
10H		✓									



KOH-I-NOOR®

HARDTMUTH® GRAPHITE

Koh-I-Noor founder Joseph Hardtmuth patented the first hardened pencil lead in 1802. He made the lead by firing a combination of clay and graphite. In 1851, Joseph's Grandson, Franz Hardtmuth, developed the scale of hardnesses known as H, B, and F.

Franz chose "H" for the family name Hardtmuth and "B" for Budejovice, the name of the town where they are manufactured. Later he added "F" for the medium gradation which stands for Franz who invented the modern technology that enabled the company to produce graphite pencils in gradations. Koh-I-Noor makes a range of 21 hardnesses from 9B to 10H in traditional graphite, and a smaller range of water soluble graphite in the Gioconda and Woodless Pencil ranges.



Printed swatches may vary by monitor and printer, and may not be a true representation of the actual graphite degree.

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9B		✓								
8B	✓	✓								
7B	✓									
6B	✓	✓		✓	✓			✓		
5B	✓									
4B	✓	✓	✓	✓	✓			✓	✓	✓
3B	✓								✓	
2B	✓	✓		✓	✓		✓	✓	✓	
B	✓								✓	
HB	✓	✓				✓			✓	
F	✓								✓	
H	✓								✓	
2H	✓								✓	
3H	✓								✓	
4H	✓								✓	
5H	✓									
6H	✓									
7H	✓									
8H	✓									
9H	✓									
10H	✓									



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HAND COLOR CHART

_____ date

_____ paper type