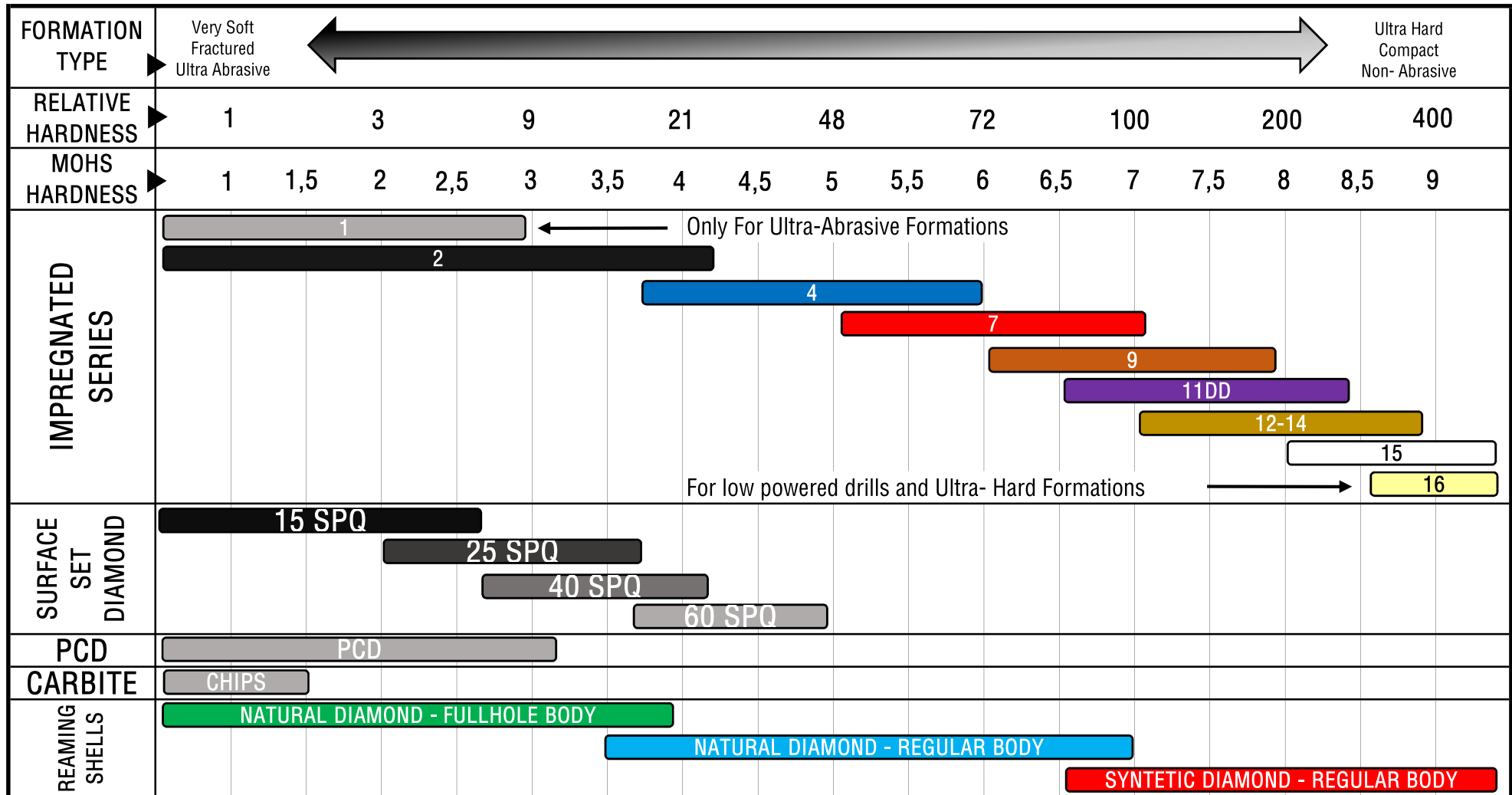




MBI MATRIX SELECTION CHART FOR DIAMOND BITS AND REAMING SHELLS



The technical application data in this document is intended as a basic guideline for the selection of appropriate tools for your job. As drilling conditions and the capabilities of drilling equipment vary considerably from site to site, it is impossible to define absolute parameters for the application of our drilling tools. Some experimentation on the part of the end user may be required as parameters outside of those recommended in MBI's product literature may be applicable. Every effort has been made to ensure the accuracy of the data contained in this document. MBI Drilling products Inc. cannot accept any liability due to errors or omissions in the data that we provide. MBI Drilling products Inc. is constantly working to improve our products and therefore reserve the right to make changes to materials, specifications, prices and technical data without prior

MBI BIT COMPARISON GUIDE

Rock Types	Rock Characteristics	MBI	EPIROC	LY	FORDIA	DIMATEC	DRILLER EDGE	DIASET
Conglomerates, Hard Shales, Limestone	Extremely Abrasive, Coarse Grain, Gravel, Broken, Overburden	2	SHRED,2-4	PURPLE, S/S UMX	Hero 3, Shark 1, T Xtreme 4-6	D2	2A	1X, 2X
Conglomerates Hard Shales Sandstone	Very Abrasive, Coarse Grain, Clays, Fractured		SHRED,2-4	PURPLE S/S UMX	Hero 3 Shark 2 T Xtreme 4-6	D2	5	1X 2X
Dolomite Weathered Granite Limonite	Abrasive, Medium to Coarse Grained Fractured, Burnt Drill Bits	4	4-6	BLUE UMX7	Hero 7 Shark 4 T Rex 4-6	D6	6 6A	3X 4X 5X
Basalt Diorite Gabbro	Moderatly abbrasive, Coarse-Medium Grained	7AA	AZURE	GREEN UMX 7	Hero 7 Shark 7 T Rex 6-9	D7	7/ T26 7E	5X 6X 7X
Pegmatite Quartz Silicified Volcanics	Medium-Fine grained Slightly abrasive	9AA	AZURE KUBY	UMX8 UMX 9 GREEN	T Rex 6-9 P200 Shark 9	D8 HR-9	8 8E	8X 9X
Diorite Quartzite Granite	Solid Formation, Hard-Very Hard	9AA 11DD	AZURE KUBY	UMX 9 UMX 10 YELLOW	Hero 9-11 Shark 10 Hero 11	HR-9 D10	9 9E	10X 11X
Diorite Quartzite Granite	Fine Grained, Non Abrasive, Hard-Very Hard	11DD 12-14	KS S++ 8-9 KUBY	UMX 10 ORANGE	Hero 9-11 Hero 11 Hero 12	HR-10 HR-11 D12	10	11X 12X
Jasper Chert Rholite	Very Fine Grained, Extremely Hard, Non Abrasive	12-14 15	LAVA,9,10	RED	Hero 12 Shark 12 Shark 15	HR-12 HR-13 HR-14		12X 13X