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General Application Chart for Mineral Exploration Bits

Formation Type	Representative Rock Types	DCDMA Code	Mohs Hardness	UCS (MPa)	Drill Bit Cutting Media Type		
					Carbide Bits	PDC Set, TSP Set Bits	Impregnated Diamond Bits
Soft Fractured Abrasive	Plastic Clay, Gypsum	-	1				
	Sand, Marl, Soft Shale	-	2	2			
	Soft Sandstone, Calcite, Lignite, Frozen Soil, Sandy Limestone	-	3	5			
	Hard Clay, Shale, Soft Schist	-		10			
	Limestone, Sandstone, Siltstone, Fluorite	1	4	15			
	Slate, Claystone, Apatite	2		20			
			5	30			
	Alluvial Deposits, Serpentine, Hard Sandstone	3		40			
	Dolomitic Limestone, Norite Granite, Marble, Schist	4	6	60			
	Granite, Dolomite, Mica Schist, Diorite, Diabase, Hematite, Magnetite, Syenite	5		80			
Hard Consolidated Non-Abrasive	Quartz, Andesite, Conglomerates, Trachyte, Porphyry, Basalt, Gabbro, Gneiss, Pegmatite, Silicified Volcanics	6	7	100 120			
	Chert, Rhyolite, Banded Ironstone, Glassy Quartzite, Taconite	7		160			
				200			

The technical application data in this document is intended as a basic guideline for the selection of the 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 Dimatec's product literature may be applicable. Every effort has been made to ensure the accuracy of the data contained in this document. Dimatec Inc. cannot accept any liability due to errors or omissions in the data that we provide. Dimatec 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 notice.