



# Matrix Selection Chart for D-Series and HR-Series Impregnated Diamond Bits

Formation Type	Representative Rock Types	Mohs Hardness	UCS (MPa)	Recommended Matrix Types		
				Standard Matrices "D-Series"	Hard Rock Matrices "HR-Series"	
Soft Fractured Abrasive   Hard Fine Grained Non-Abrasive	Limestone, Sandstone, Siltstone, Fluorite	4		<b>D2</b>		
	Slate, Claystone, Apatite	5	30	<b>D3</b>		
	Alluvial Deposits, Serpentine, Hard Sandstone		40	<b>D4</b>		
	Dolomitic Limestone, Norite Granite, Marble, Schist		60	<b>D5</b>		
	Granite, Dolomite, Mica Schist, Diorite, Diabase, Hematite, Magnetite, Syenite		6		<b>D6</b>	<b>HR7</b>
				80	<b>D7</b>	<b>HR8</b>
				100	<b>D8</b>	<b>HR9</b>
	Quartz, Andesite, Conglomerates, Trachyte, Porphyry, Basalt, Gabbro, Gneiss, Pegmatite, Silicified Volcanics		7		<b>D9</b>	<b>HR9</b>
				120	<b>D10</b>	<b>HR10</b>
	Chert, Rhyolite, Banded Ironstone, Glassy Quartzite, Taconite			160		<b>HR11</b>
			200		<b>HR12</b>	
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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 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 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.