

Bit Selection Chart

Rock description	Approximate hardness	TC BITS	SAWTOOTH DIAMOND	SURFACE SET Stones per Carat				IMPREGNATED Matrix									
				10 15	15 25	20 40	40 80	1	2	4	6	7	8	9	10		
Clay Soft Shale Chalk Soft Limestone Gypsum Volcanic Tuff	SOFT	✓	✓														
Sand Loose Sandstone Shale Marl Shale Med-Hard Limestone Salt Frozen Soil & Ice	SOFT OR MEDIUM MIXED			✓				✓	✓								
Soft Sandstone Sandy Shale Claystone Sandy Limestone Soft Schist	MEDIUM HARD NON-ABRASIVE				✓					✓							
Med-Hard Sandstone Siltstone Alluvial deposits Calcitic Limestone Med-Hard Limestone Hard Shale	MEDIUM HARD ABRASIVE		✓			✓			✓								
Hard Limestone Dolomitic Limestone Schist Serpentine	SLIGHTLY ABRASIVE						✓				✓						
Hard & Mica Schist Siliceous Limestone Dolomite Marble Peridotite Andesite Pegmatite Hematite Magnetite	HARD							✓				✓					
Metamorph. Schist Gneiss Granite Basalt Gabbro Rhyolite Diorite	VERY HARD															✓	
Conglomerate Taconite Abrasive Sandstone Pyritic Formations Banded Hematite	ULTRA HARD																✓