

RAD CARBIDE SPADE DRILL INSERTS

ver1140127

High Performance on Gray cast iron over 220 Brinell, malleable cast iron with short chips, silicon aluminum and copper alloys (C3)

For general use in carbon steel and alloys steels (C5)

For use in Gray cast iron up to 220 brinell, nonferrous metals, copper, brass and aluminum (C2)



Series Min. to Max. (mm/inch)	Diameter			MULTIPURPOSE GEOMETRY				CAST IRON GEOMETRY	
				C2		C5		C3	
				TiN	TiAlN	TiN	TiAlN	TiN	TiAlN
Y 9.5(.374") to 11.07(.436") Thick	Inch (inch)	Metric (mm)	Decimal (inch)						
		9.5	.3740"	S21Y01	S23Y01	S26Y01	S28Y01	S16Y01	S18Y01
	3/8"	9.53	.3750"	S21Y02	S23Y02	S26Y02	S28Y02	S16Y02	S18Y02
		9.8	.3860"	S21Y03	S23Y03	S26Y03	S28Y03	S16Y03	S18Y03
	25/64"	9.92	.3906"	S21Y04	S23Y04	S26Y04	S28Y04	S16Y04	S18Y04
		10	.3937"	S21Y05	S23Y05	S26Y05	S28Y05	S16Y05	S18Y05
		10.2	.4016"	S21Y06	S23Y06	S26Y06	S28Y06	S16Y06	S18Y06
	13/32"	10.32	.4063"	S21Y07	S23Y07	S26Y07	S28Y07	S16Y07	S18Y07
		10.5	.4134"	S21Y08	S23Y08	S26Y08	S28Y08	S16Y08	S18Y08
	27/64"	10.72	.4219"	S21Y09	S23Y09	S26Y09	S28Y09	S16Y09	S18Y09
		10.8	.4252"	S21Y10	S23Y10	S26Y10	S28Y10	S16Y10	S18Y10
	11	.4331"	S21Y11	S23Y11	S26Y11	S28Y11	S16Y11	S18Y11	
Z 11.11 (.437") to 12.95 (.510")	7/16"	11.11	.4375"	S21Z01	S23Z01	S26Z01	S28Z01	S16Z01	S18Z01
		11.5	.4528"	S21Z02	S23Z02	S26Z02	S28Z02	S16Z02	S18Z02
	29/64"	11.51	.4531"	S21Z03	S23Z03	S26Z03	S28Z03	S16Z03	S18Z03
	15/32"	11.91	.4688"	S21Z04	S23Z04	S26Z04	S28Z04	S16Z04	S18Z04
		12	.4724"	S21Z05	S23Z05	S26Z05	S28Z05	S16Z05	S18Z05
	31/64"	12.3	.4844"	S21Z06	S23Z06	S26Z06	S28Z06	S16Z06	S18Z06
		12.5	.4921"	S21Z07	S23Z07	S26Z07	S28Z07	S16Z07	S18Z07
	1/2"	12.7	.5000"	S21Z08	S23Z08	S26Z08	S28Z08	S16Z08	S18Z08
0 12.98 (.511") to 17.65 (.695")		13	.5118"	S21001	S23001	S26001	S28001	S16001	S18001
	33/64"	13.1	.5156"	S21002	S23002	S26002	S28002	S16002	S18002
	17/32"	13.49	.5313"	S21003	S23003	S26003	S28003	S16003	S18003
		13.5	.5315"	S21004	S23004	S26004	S28004	S16004	S18004
	35/64"	13.89	.5469"	S21060	S23060	S26060	S28060	S16060	S18060
		14	.5512"	S21005	S23005	S26005	S28005	S16005	S18005
	9/16"	14.29	.5625"	S21006	S23006	S26006	S28006	S16006	S18006
		14.5	.5709"	S21007	S23007	S26007	S28007	S16007	S18007
	37/64"	14.68	.5781"	S21008	S23008	S26008	S28008	S16008	S18008
		15	.5906"	S21009	S23009	S26009	S28009	S16009	S18009
	19/32"	15.08	.5938"	S21010	S23010	S26010	S28010	S16010	S18010
	39/64"	15.48	.6094"	S21061	S23061	S26061	S28061	S16061	S18061
		15.5	.6102"	S21011	S23011	S26011	S28011	S16011	S18011
		15.7	.6181"	S21064	S23064	S26064	S28064	S16064	S18064
	5/8"	15.88	.6250"	S21012	S23012	S26012	S28012	S16012	S18012
	16	.6299"	S21013	S23013	S26013	S28013	S16013	S18013	

	41/64"	16.27	.6406"	S21062	S23062	S26062	S28062	S16062	S18062
		16.5	.6496"	S21014	S23014	S26014	S28014	S16014	S18014
	21/32"	16.67	.6563"	S21015	S23015	S26015	S28015	S16015	S18015
		17	.6693"	S21016	S23016	S26016	S28016	S16016	S18016
	43/64"	17.07	.6719"	S21063	S23063	S26063	S28063	S16063	S18063
	11/16"	17.46	.6875"	S21017	S23017	S26017	S28017	S16017	S18017
		17.5	.6890"	S21018	S23018	S26018	S28018	S16018	S18018
1 17.53 (.690") to 24.38 (.960")	45/64"	17.86	.7031"	S21101	S23101	S26101	S28101	S16101	S18101
		18	.7087"	S21102	S23102	S26102	S28102	S16102	S18102
	23/32"	18.26	.7188"	S21103	S23103	S26103	S28103	S16103	S18103
		18.5	.7283"	S21104	S23104	S26104	S28104	S16104	S18104
	47/64"	18.65	.7344"	S21105	S23105	S26105	S28105	S16105	S18105
		19	.7480"	S21106	S23106	S26106	S28106	S16106	S18106
	3/4"	19.05	.7500"	S21107	S23107	S26107	S28107	S16107	S18107
	49/64"	19.45	.7656"	S21108	S23108	S26108	S28108	S16108	S18108
		19.5	.7677"	S21109	S23109	S26109	S28109	S16109	S18109
	25/32"	19.84	.7813"	S21110	S23110	S26110	S28110	S16110	S18110
		20	.7874"	S21111	S23111	S26111	S28111	S16111	S18111
	51/64"	20.24	.7969"	S21160	S23160	S26160	S28160	S16160	S18160
		20.5	.8071"	S21112	S23112	S26112	S28112	S16112	S18112
	13/16"	20.64	.8125"	S21113	S23113	S26113	S28113	S16113	S18113
		21	.8268"	S21114	S23114	S26114	S28114	S16114	S18114
	27/32"	21.43	.8438"	S21115	S23115	S26115	S28115	S16115	S18115
	55/64"	21.83	.8594"	S21161	S23161	S26161	S28161	S16161	S18161
		22	.8661"	S21116	S23116	S26116	S28116	S16116	S18116
	7/8"	22.23	.8750"	S21117	S23117	S26117	S28117	S16117	S18117
	57/64"	22.62	.8906"	S21162	S23162	S26162	S28162	S16162	S18162
		23	.9055"	S21118	S23118	S26118	S28118	S16118	S18118
	29/32"	23.02	.9063"	S21119	S23119	S26119	S28119	S16119	S18119
	59/64"	23.42	.9219"	S21120	S23120	S26120	S28120	S16120	S18120
	15/16"	23.81	.9375"	S21121	S23121	S26121	S28121	S16121	S18121
	24	.9449"	S21122	S23122	S26122	S28122	S16122	S18122	
2 24.41 (.961") to 35.05 (1.380")	31/32"	24.61	.9688"	S21201	S23201	S26201	S28201	S16201	S18201
	63/64"	25	.9843"	S21202	S23202	S26202	S28202	S16202	S18202
	1"	25.4	1.0000"	S21203	S23203	S26203	S28203	S16203	S18203
	1-1/64"	25.8	1.0156"	S21204	S23204	S26204	S28204	S16204	S18204
		26	1.0236"	S21205	S23205	S26205	S28205	S16205	S18205
	1-1/32"	26.19	1.0313"	S21206	S23206	S26206	S28206	S16206	S18206
	1-3/64"	26.59	1.0469"	S21260	S23260	S26260	S28260	S16260	S18260
	1-1/16"	26.99	1.0625"	S21207	S23207	S26207	S28207	S16207	S18207
		27	1.0630"	S21208	S23208	S26208	S28208	S16208	S18208
	1-3/32"	27.78	1.0938"	S21209	S23209	S26209	S28209	S16209	S18209
		28	1.1024"	S21210	S23210	S26210	S28210	S16210	S18210
	1-7/64"	28.18	1.1094"	S21261	S23261	S26261	S28261	S16261	S18261
	1-1/8"	28.58	1.1250"	S21211	S23211	S26211	S28211	S16211	S18211

	29	1.1417"	S21212	S23212	S26212	S28212		S16212	S18212
1-5/32"	29.37	1.1563"	S21213	S23213	S26213	S28213		S16213	S18213
	30	1.1811"	S21214	S23214	S26214	S28214		S16214	S18214
1-3/16"	30.16	1.1875"	S21215	S23215	S26215	S28215		S16215	S18215
1-7/32"	30.96	1.2188"	S21216	S23216	S26216	S28216		S16216	S18216
	31	1.2205"	S21217	S23217	S26217	S28217		S16217	S18217
1-1/4"	31.75	1.2500"	S21218	S23218	S26218	S28218		S16218	S18218
	32	1.2598"	S21219	S23219	S26219	S28219		S16219	S18219
1-9/32"	32.54	1.2813"	S21220	S23220	S26220	S28220		S16220	S18220
	33	1.2992"	S21221	S23221	S26221	S28221		S16221	S18221
1-5/16"	33.34	1.3125"	S21222	S23222	S26222	S28222		S16222	S18222
	34	1.3386"	S21223	S23223	S26223	S28223		S16223	S18223
1-11/32"	34.13	1.3438"	S21224	S23224	S26224	S28224		S16224	S18224
1-3/8"	34.93	1.3750"	S21225	S23225	S26225	S28225		S16225	S18225
	35	1.3780"	S21226	S23226	S26226	S28226		S16226	S18226
3 1.353" to 1.882"	1-13/32"	35.72	1.4063"	S21301	S23301	S26301	S28301		
		36	1.4173"	S21302	S23302	S26302	S28302		
	1-7/16"	36.51	1.4375	S21303	S23303	S26303	S28303		
		37	1.4567"	S21304	S23304	S26304	S28304		
	1-15/32"	37.31	1.4688"	S21305	S23305	S26305	S28305		
		38	1.4961"	S21306	S23306	S26306	S28306		
	1-1/2"	38.1	1.5000"	S21307	S23307	S26307	S28307		
	1-17/32"	38.89	1.5313"	S21308	S23308	S26308	S28308		
		39	1.5354"	S21309	S23309	S26309	S28309		
	1-9/16"	40.48	1.5938"	S21310	S23310	S26310	S28310		
		40	1.5748"	S21311	S23311	S26311	S28311		
	1-19/32"	40.48	1.5938"	S21312	S23312	S26312	S28312		
		41	1.6142"	S21313	S23313	S26313	S28313		
	1-5/8"	41.28	1.6250"	S21314	S23314	S26314	S28314		
		42	1.6535"	S21315	S23315	S26315	S28315		
	1-21/32"	42.07	1.6563"	S21316	S23316	S26316	S28316		
	1-11/16"	42.86	1.6875"	S21317	S23317	S26317	S28317		
		43	1.6929"	S21318	S23318	S26318	S28318		
	1-23/32"	43.66	1.7188"	S21319	S23319	S26319	S28319		
		44	1.7323"	S21320	S23320	S26320	S28320		
	1-3/4"	44.45	1.7500"	S21321	S23321	S26321	S28321		
		45	1.7717"	S21322	S23322	S26322	S28322		
	1-25/32"	45.24	1.7813"	S21323	S23323	S26323	S28323		
		46	1.8110"	S21324	S23324	S26324	S28324		
	1-13/16"	4.04	1.8125"	S21325	S23325	S26325	S28325		
	1-27/32"	46.83	1.8438"	S21326	S23326	S26326	S28326		
		47	1.8504"	S21327	S23327	S26327	S28327		
	1-7/8"	47.63	1.8750"	S21328	S23328	S26328	S28328		