



A Brand ADO

Advanced Performance Coolant-Through Carbide Drills

ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

List 6510

A BRAND ADO-5D



SPEED FEED
306

CARBIDE

EgiAs



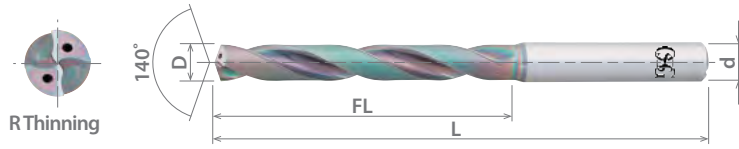
2 FLUTE

JOBBER

30°

SHANK
h6

PACKED
1 PIECE



Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
2 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 20	+0 / -0.033	+0 / -0.0013

EDP Number	●	Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter	
		Fractional Size	Wire Gage	Letter Size	mm	Inch			d (in)	d (mm)
651007812	●	-	-	-	2.000	0.07874	18.00	70.00	-	3.00
651008212	●	-	-	-	2.100	0.08268	19.00	70.00	-	3.00
651008612	●	-	-	-	2.200	0.08661	20.00	70.00	-	3.00
8692230	●	-	-	-	2.300	0.09055	21.00	70.00	-	3.00
651009312	●	3/32	-	-	2.381	0.09375	22.00	70.00	-	3.00
651009412	●	-	-	-	2.400	0.09449	22.00	70.00	-	3.00
8692250	●	-	-	-	2.500	0.09843	23.00	70.00	-	3.00
8692260	●	-	-	-	2.600	0.10236	24.00	78.00	-	3.00
651010612	●	-	-	-	2.700	0.10630	25.00	78.00	-	3.00
8692278	●	7/64	-	-	2.778	0.10938	26.00	78.00	-	3.00
8692280	●	-	-	-	2.800	0.11024	26.00	78.00	-	3.00
8692290	●	-	-	-	2.900	0.11417	27.00	78.00	-	3.00
8692300	●	-	-	-	3.000	0.11811	27.00	78.00	-	3.00
8692310	●	-	-	-	3.100	0.12205	28.00	86.00	-	4.00
651012511	●	1/8	-	-	3.175	0.12500	29.00	86.00	0.125	-
8692320	●	-	-	-	3.200	0.12598	29.00	86.00	-	4.00
8692330	●	-	-	-	3.300	0.12992	30.00	86.00	-	4.00
8692340	●	-	-	-	3.400	0.13386	31.00	86.00	-	4.00
8692350	●	-	-	-	3.500	0.13780	32.00	86.00	-	4.00
8692360	●	-	-	-	3.600	0.14173	33.00	86.00	-	4.00
8692370	●	-	-	-	3.700	0.14567	34.00	86.00	-	4.00
8692380	●	-	-	-	3.800	0.14961	35.00	86.00	-	4.00
8692390	●	-	-	-	3.900	0.15354	36.00	86.00	-	4.00
651015511	●	5/32	-	-	3.969	0.15625	36.00	86.00	0.188	-
8692400	●	-	-	-	4.000	0.15748	36.00	86.00	-	4.00
651016011	●	-	20	-	4.089	0.16100	37.00	95.00	-	6.00
8692410	●	-	-	-	4.100	0.16142	37.00	95.00	-	5.00
8702410	●	-	-	-	4.100	0.16142	37.00	95.00	-	6.00
8692420	●	-	-	-	4.200	0.16535	38.00	95.00	-	5.00
8702420	●	-	-	-	4.200	0.16535	38.00	95.00	-	6.00
8692430	●	-	-	-	4.300	0.16929	39.00	95.00	-	5.00
8702430	●	-	-	-	4.300	0.16929	39.00	95.00	-	6.00
651017111	●	11/64	-	-	4.366	0.17188	40.00	95.00	0.188	-
8692440	●	-	-	-	4.400	0.17323	40.00	95.00	-	5.00
8702440	●	-	-	-	4.400	0.17323	40.00	95.00	-	6.00
8692450	●	-	-	-	4.500	0.17717	41.00	95.00	-	5.00
8702450	●	-	-	-	4.500	0.17717	41.00	95.00	-	6.00
8692460	●	-	-	-	4.600	0.18110	42.00	95.00	-	5.00
8702460	●	-	-	-	4.600	0.18110	42.00	95.00	-	6.00
8692470	●	-	-	-	4.700	0.18504	43.00	95.00	-	5.00
8702470	●	-	-	-	4.700	0.18504	43.00	95.00	-	6.00
651018711	●	3/16	-	-	4.763	0.18750	44.00	95.00	0.188	-
8692480	●	-	-	-	4.800	0.18898	44.00	95.00	-	5.00
8702480	●	-	-	-	4.800	0.18898	44.00	95.00	-	6.00
8692490	●	-	-	-	4.900	0.19291	45.00	95.00	-	5.00
8702490	●	-	-	-	4.900	0.19291	45.00	95.00	-	6.00
8692500	●	-	-	-	5.000	0.19685	45.00	95.00	-	5.00
8702500	●	-	-	-	5.000	0.19685	45.00	95.00	-	6.00
8692510	●	-	-	-	5.100	0.20079	41.00	100.00	-	6.00
651020211	●	13/64	-	-	5.159	0.20313	42.00	100.00	0.250	-
8692520	●	-	-	-	5.200	0.20472	42.00	100.00	-	6.00
8692530	●	-	-	-	5.300	0.20866	43.00	100.00	-	6.00
8692540	●	-	-	-	5.400	0.21260	44.00	100.00	-	6.00

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked





List 6510 (Continued)

A BRAND ADO-5D



SPEED FEED
306

CARBIDE

EgiAs



2 FLUTE

JOBBER

30°

SHANK
h6

PACKED
1 PIECE

EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	
		Fractional Size	Wire Gage	Letter Size	mm	Inch	FL (mm)	L (mm)	d (in)	d (mm)
651021311	●	-	3	-	5.410	0.21300	44.00	100.00	0.250	-
8692550	●	-	-	-	5.500	0.21654	44.00	100.00	-	6.00
651021711	●	7/32	-	-	5.556	0.21875	45.00	100.00	0.250	-
8692560	●	-	-	-	5.600	0.22047	45.00	100.00	-	6.00
8692570	●	-	-	-	5.700	0.22441	46.00	100.00	-	6.00
8692580	●	-	-	-	5.800	0.22835	47.00	100.00	-	6.00
8692590	●	-	-	-	5.900	0.23228	48.00	100.00	-	6.00
651023311	●	15/64	-	-	5.953	0.23438	48.00	100.00	0.250	-
8692600	●	-	-	-	6.000	0.23622	48.00	100.00	-	6.00
8692610	●	-	-	-	6.100	0.24016	49.00	109.00	-	7.00
8702610	●	-	-	-	6.100	0.24016	49.00	109.00	-	8.00
8692620	●	-	-	-	6.200	0.24409	50.00	109.00	-	7.00
8702620	●	-	-	-	6.200	0.24409	50.00	109.00	-	8.00
8692630	●	-	-	-	6.300	0.24803	51.00	109.00	-	7.00
8702630	●	-	-	-	6.300	0.24803	51.00	109.00	-	8.00
651025011	●	1/4	-	E	6.350	0.25000	52.00	109.00	0.250	-
8692640	●	-	-	-	6.400	0.25197	52.00	109.00	-	7.00
8702640	●	-	-	-	6.400	0.25197	52.00	109.00	-	8.00
8692650	●	-	-	-	6.500	0.25591	52.00	109.00	-	7.00
8702650	●	-	-	-	6.500	0.25591	52.00	109.00	-	8.00
651025611	●	-	-	F	6.528	0.25700	53.00	109.00	-	8.00
8692660	●	-	-	-	6.600	0.25984	53.00	109.00	-	7.00
8702660	●	-	-	-	6.600	0.25984	53.00	109.00	-	8.00
8692670	●	-	-	-	6.700	0.26378	54.00	109.00	-	7.00
8702670	●	-	-	-	6.700	0.26378	54.00	109.00	-	8.00
651026411	●	17/64	-	-	6.747	0.26563	55.00	109.00	0.313	-
8692680	●	-	-	-	6.800	0.26772	55.00	109.00	-	7.00
8702680	●	-	-	-	6.800	0.26772	55.00	109.00	-	8.00
8692690	●	-	-	-	6.900	0.27165	56.00	109.00	-	7.00
8702690	●	-	-	-	6.900	0.27165	56.00	109.00	-	8.00
8692700	●	-	-	-	7.000	0.27559	56.00	109.00	-	7.00
8702700	●	-	-	-	7.000	0.27559	56.00	109.00	-	8.00
8692710	●	-	-	-	7.100	0.27953	57.00	118.00	-	8.00
651028011	●	9/32	-	-	7.144	0.28125	58.00	118.00	0.313	-
8692720	●	-	-	-	7.200	0.28346	58.00	118.00	-	8.00
8692730	●	-	-	-	7.300	0.28740	59.00	118.00	-	8.00
8692740	●	-	-	-	7.400	0.29134	60.00	118.00	-	8.00
8692750	●	-	-	-	7.500	0.29528	60.00	118.00	-	8.00
651029611	●	19/64	-	-	7.541	0.29688	60.00	118.00	0.313	-
8692760	●	-	-	-	7.600	0.29921	61.00	118.00	-	8.00
8692770	●	-	-	-	7.700	0.30315	62.00	118.00	-	8.00
8692780	●	-	-	-	7.800	0.30709	63.00	118.00	-	8.00
8692790	●	-	-	-	7.900	0.31102	64.00	118.00	-	8.00
651031211	●	5/16	-	-	7.938	0.31250	64.00	118.00	0.313	-
8692800	●	-	-	-	8.000	0.31496	64.00	118.00	-	8.00
8692810	●	-	-	-	8.100	0.31890	65.00	128.00	-	9.00
8702810	●	-	-	-	8.100	0.31890	65.00	128.00	-	10.00
8692820	●	-	-	-	8.200	0.32283	66.00	128.00	-	9.00
8702820	●	-	-	-	8.200	0.32283	66.00	128.00	-	10.00
8692830	●	-	-	-	8.300	0.32677	67.00	128.00	-	9.00

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked



CONTINUED

P					M			K	N		S		H				
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel				
Carbon Steel			Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium					
Low	Medium	High							6061	7075			Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
1010	1035	1065	4140	4340	○	○	○	○	○	○	○	○	○	○	○	○	○
1018	1045				○	○	○	○	○	○	○	○	○	○	○	○	○

○ Good ○ Best





A Brand ADO

Advanced Performance Coolant-Through Carbide Drills

ABOUT OSG

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List 6510 (Continued)



SPEED FEED
306

CARBIDE

EgiAs



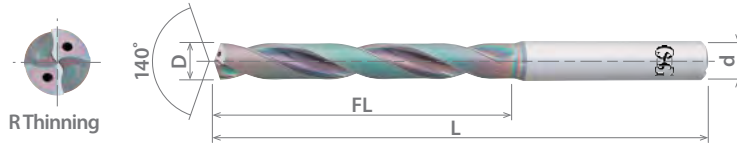
JOBBER



SHANK
h6

PACKED
1 PIECE

A BRAND ADO-5D



Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
2 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 20	+0 / -0.033	+0 / -0.0013

EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter	
		Fractional Size	Wire Gage	Letter Size	mm	Inch			d (in)	d (mm)
8702830	●	-	-	-	8.300	0.32677	67.00	128.00	-	10.00
651032711	●	21/64	-	-	8.334	0.32813	67.00	128.00	0.375	-
8692840	●	-	-	-	8.400	0.33071	68.00	128.00	-	9.00
8702840	●	-	-	-	8.400	0.33071	68.00	128.00	-	10.00
651033111	●	-	-	Q	8.433	0.33200	68.00	128.00	0.344	-
8692850	●	-	-	-	8.500	0.33465	68.00	128.00	-	9.00
8702850	●	-	-	-	8.500	0.33465	68.00	128.00	-	10.00
8692860	●	-	-	-	8.600	0.33858	69.00	128.00	-	9.00
8702860	●	-	-	-	8.600	0.33858	69.00	128.00	-	10.00
8692870	●	-	-	-	8.700	0.34252	70.00	128.00	-	9.00
8702870	●	-	-	-	8.700	0.34252	70.00	128.00	-	10.00
651034211	●	11/32	-	-	8.731	0.34375	70.00	128.00	0.375	-
8692880	●	-	-	-	8.800	0.34646	71.00	128.00	-	9.00
8702880	●	-	-	-	8.800	0.34646	71.00	128.00	-	10.00
8692890	●	-	-	-	8.900	0.35039	72.00	128.00	-	9.00
8702890	●	-	-	-	8.900	0.35039	72.00	128.00	-	10.00
8692900	●	-	-	-	9.000	0.35433	72.00	128.00	-	9.00
8702900	●	-	-	-	9.000	0.35433	72.00	128.00	-	10.00
8692910	●	-	-	-	9.100	0.35827	73.00	136.00	-	10.00
651035811	●	23/64	-	-	9.128	0.35938	73.00	136.00	0.375	-
8692920	●	-	-	-	9.200	0.36220	74.00	136.00	-	10.00
8692930	●	-	-	-	9.300	0.36614	75.00	136.00	-	10.00
8692940	●	-	-	-	9.400	0.37008	76.00	136.00	-	10.00
8692950	●	-	-	-	9.500	0.37402	76.00	136.00	-	10.00
651037511	●	3/8	-	-	9.525	0.37500	76.00	136.00	0.375	-
8692960	●	-	-	-	9.600	0.37795	77.00	136.00	-	10.00
8692970	●	-	-	-	9.700	0.38189	78.00	136.00	-	10.00
8692980	●	-	-	-	9.800	0.38583	79.00	136.00	-	10.00
8692990	●	-	-	-	9.900	0.38976	80.00	136.00	-	10.00
651038911	●	25/64	-	-	9.922	0.39063	80.00	136.00	0.438	-
8693000	●	-	-	-	10.000	0.39370	80.00	136.00	-	10.00
8693010	●	-	-	-	10.100	0.39764	81.00	146.00	-	11.00
8703010	●	-	-	-	10.100	0.39764	81.00	146.00	-	12.00
8693020	●	-	-	-	10.200	0.40157	82.00	146.00	-	11.00
8703020	●	-	-	-	10.200	0.40157	82.00	146.00	-	12.00
8693030	●	-	-	-	10.300	0.40551	83.00	146.00	-	11.00
8703030	●	-	-	-	10.300	0.40551	83.00	146.00	-	12.00
651040511	●	13/32	-	-	10.319	0.40625	83.00	146.00	0.438	-
8693040	●	-	-	-	10.400	0.40945	84.00	146.00	-	11.00
8703040	●	-	-	-	10.400	0.40945	84.00	146.00	-	12.00
8693050	●	-	-	-	10.500	0.41339	84.00	146.00	-	11.00
8703050	●	-	-	-	10.500	0.41339	84.00	146.00	-	12.00
8693060	●	-	-	-	10.600	0.41732	85.00	146.00	-	11.00
8703060	●	-	-	-	10.600	0.41732	85.00	146.00	-	12.00
8693070	●	-	-	-	10.700	0.42126	86.00	146.00	-	11.00
8703070	●	-	-	-	10.700	0.42126	86.00	146.00	-	12.00
651042111	●	27/64	-	-	10.716	0.42188	86.00	146.00	0.438	-
8693080	●	-	-	-	10.800	0.42520	87.00	146.00	-	11.00
8703080	●	-	-	-	10.800	0.42520	87.00	146.00	-	12.00
8693090	●	-	-	-	10.900	0.42913	88.00	146.00	-	11.00
8703090	●	-	-	-	10.900	0.42913	88.00	146.00	-	12.00
8693100	●	-	-	-	11.000	0.43307	88.00	146.00	-	11.00
8703100	●	-	-	-	11.000	0.43307	88.00	146.00	-	12.00

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked





List 6510 (Continued)

A BRAND ADO-5D



SPEED FEED
306

CARBIDE

EgiAs



2 FLUTE

JOBBER

30°

SHANK
h6

PACKED
1 PIECE

EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	
		Fractional Size	Wire Gage	Letter Size	mm	Inch	FL (mm)	L (mm)	d (in)	d (mm)
8693110	●	-	-	-	11.100	0.43701	89.00	156.00	-	12.00
651043711	●	7/16	-	-	11.113	0.43750	89.00	156.00	0.438	-
8693120	●	-	-	-	11.200	0.44094	90.00	156.00	-	12.00
8693130	●	-	-	-	11.300	0.44488	91.00	156.00	-	12.00
8693140	●	-	-	-	11.400	0.44882	92.00	156.00	-	12.00
8693150	●	-	-	-	11.500	0.45276	92.00	156.00	-	12.00
651045211	●	29/64	-	-	11.509	0.45313	92.00	156.00	0.500	-
8693160	●	-	-	-	11.600	0.45669	93.00	156.00	-	12.00
8693170	●	-	-	-	11.700	0.46063	94.00	156.00	-	12.00
8693180	●	-	-	-	11.800	0.46457	95.00	156.00	-	12.00
8693190	●	-	-	-	11.900	0.46850	96.00	156.00	-	12.00
651046711	●	15/32	-	-	11.906	0.46875	96.00	156.00	0.500	-
8693200	●	-	-	-	12.000	0.47244	96.00	156.00	-	12.00
8693210	●	-	-	-	12.100	0.47638	97.00	167.00	-	13.00
8703210	●	-	-	-	12.100	0.47638	97.00	167.00	-	14.00
8693220	●	-	-	-	12.200	0.48031	98.00	167.00	-	13.00
8703220	●	-	-	-	12.200	0.48031	98.00	167.00	-	14.00
8693230	●	-	-	-	12.300	0.48425	99.00	167.00	-	13.00
8703230	●	-	-	-	12.300	0.48425	99.00	167.00	-	14.00
651048411	●	31/64	-	-	12.303	0.48438	99.00	167.00	0.500	-
8693240	●	-	-	-	12.400	0.48819	100.00	167.00	-	13.00
8703240	●	-	-	-	12.400	0.48819	100.00	167.00	-	14.00
8693250	●	-	-	-	12.500	0.49213	100.00	167.00	-	13.00
8703250	●	-	-	-	12.500	0.49213	100.00	167.00	-	14.00
8693260	●	-	-	-	12.600	0.49606	101.00	167.00	-	13.00
8703260	●	-	-	-	12.600	0.49606	101.00	167.00	-	14.00
651050011	●	1/2	-	-	12.700	0.50000	102.00	167.00	0.500	-
8693270	●	-	-	-	12.700	0.50000	102.00	167.00	-	13.00
8703270	●	-	-	-	12.700	0.50000	102.00	167.00	-	14.00
8693280	●	-	-	-	12.800	0.50394	103.00	167.00	-	13.00
8703280	●	-	-	-	12.800	0.50394	103.00	167.00	-	14.00
8693290	●	-	-	-	12.900	0.50787	104.00	167.00	-	13.00
8703290	●	-	-	-	12.900	0.50787	104.00	167.00	-	14.00
8693300	●	-	-	-	13.000	0.51181	104.00	167.00	-	13.00
8703300	●	-	-	-	13.000	0.51181	104.00	167.00	-	14.00
8693310	●	-	-	-	13.100	0.51575	105.00	176.00	-	14.00
8693320	●	-	-	-	13.200	0.51969	106.00	176.00	-	14.00
8693330	●	-	-	-	13.300	0.52362	107.00	176.00	-	14.00
8693340	●	-	-	-	13.400	0.52756	108.00	176.00	-	14.00
651053011	●	17/32	-	-	13.494	0.53125	108.00	176.00	0.625	-
8693350	●	-	-	-	13.500	0.53150	108.00	176.00	-	14.00
8693360	●	-	-	-	13.600	0.53543	109.00	176.00	-	14.00
8693370	●	-	-	-	13.700	0.53937	110.00	176.00	-	14.00
8693380	●	-	-	-	13.800	0.54331	111.00	176.00	-	14.00
8693390	●	-	-	-	13.900	0.54724	112.00	176.00	-	14.00
8693400	●	-	-	-	14.000	0.55118	112.00	176.00	-	14.00
8693410	●	-	-	-	14.100	0.55512	113.00	185.00	-	15.00
8703410	●	-	-	-	14.100	0.55512	113.00	185.00	-	16.00
8693420	●	-	-	-	14.200	0.55906	114.00	185.00	-	15.00
8703420	●	-	-	-	14.200	0.55906	114.00	185.00	-	16.00

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CONTINUED

P					M			K	N		S		H				
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel				
Carbon Steel			Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium					
Low	Medium	High							6061	7075			Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
1010	1035	1065	4140	4340	○	○	○	○	○	○	○	○	○	○	○	○	○
1018	1045				○	○	○	○	○	○	○	○	○	○	○	○	○

○ Good ○ Best





A Brand ADO

Advanced Performance Coolant-Through Carbide Drills

ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

List 6510 (Continued)



SPEED FEED
306

CARBIDE

EgiAs



2 FLUTE

JOBBER

30°

SHANK
h6

PACKED
1 PIECE

A BRAND ADO-5D



Cutting Diameter Tolerance (h8)		
Size (mm)	mm	inch
2 ≤ D ≤ 3	+0 / -0.014	+0 / -0.0006
3 < D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 20	+0 / -0.033	+0 / -0.0013

EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter	
		Fractional Size	Wire Gage	Letter Size	mm	Inch	FL (mm)	L (mm)	d (in)	d (mm)
651056111	●	9/16	-	-	14.288	0.56250	115.00	185.00	0.625	-
8693430	●	-	-	-	14.300	0.56299	115.00	185.00	-	15.00
8703430	●	-	-	-	14.300	0.56299	115.00	185.00	-	16.00
8693440	●	-	-	-	14.400	0.56693	116.00	185.00	-	15.00
8703440	●	-	-	-	14.400	0.56693	116.00	185.00	-	16.00
8693450	●	-	-	-	14.500	0.57087	116.00	185.00	-	15.00
8703450	●	-	-	-	14.500	0.57087	116.00	185.00	-	16.00
8693460	●	-	-	-	14.600	0.57480	117.00	185.00	-	15.00
8703460	●	-	-	-	14.600	0.57480	117.00	185.00	-	16.00
8693470	●	-	-	-	14.700	0.57874	118.00	185.00	-	15.00
8703470	●	-	-	-	14.700	0.57874	118.00	185.00	-	16.00
8693480	●	-	-	-	14.800	0.58268	119.00	185.00	-	15.00
8703480	●	-	-	-	14.800	0.58268	119.00	185.00	-	16.00
8693490	●	-	-	-	14.900	0.58661	120.00	185.00	-	15.00
8703490	●	-	-	-	14.900	0.58661	120.00	185.00	-	16.00
8693500	●	-	-	-	15.000	0.59055	120.00	185.00	-	15.00
8703500	●	-	-	-	15.000	0.59055	120.00	185.00	-	16.00
8693510	●	-	-	-	15.100	0.59449	121.00	193.00	-	16.00
8693520	●	-	-	-	15.200	0.59843	122.00	193.00	-	16.00
8693530	●	-	-	-	15.300	0.60236	123.00	193.00	-	16.00
8693540	●	-	-	-	15.400	0.60630	124.00	193.00	-	16.00
8693550	●	-	-	-	15.500	0.61024	124.00	193.00	-	16.00
8693560	●	-	-	-	15.600	0.61417	125.00	193.00	-	16.00
8693570	●	-	-	-	15.700	0.61811	126.00	193.00	-	16.00
8693580	●	-	-	-	15.800	0.62205	127.00	193.00	-	16.00
651062511	●	5/8	-	-	15.875	0.62500	128.00	193.00	0.625	-
8693590	●	-	-	-	15.900	0.62598	128.00	193.00	-	16.00
8693600	●	-	-	-	16.000	0.62992	128.00	193.00	-	16.00
651063311	●	-	-	-	16.100	0.63386	129.00	201.00	-	18.00
8693650	●	-	-	-	16.500	0.64961	132.00	201.00	-	17.00
8703650	●	-	-	-	16.500	0.64961	132.00	201.00	-	18.00
651065511	●	21/32	-	-	16.669	0.65625	134.00	201.00	0.750	-
8693700	●	-	-	-	17.000	0.66929	136.00	201.00	-	17.00
8703700	●	-	-	-	17.000	0.66929	136.00	201.00	-	18.00
8693750	●	-	-	-	17.500	0.68898	140.00	209.00	-	18.00
8693800	●	-	-	-	18.000	0.70866	144.00	209.00	-	18.00
8693850	●	-	-	-	18.500	0.72835	148.00	217.00	-	19.00
8703850	●	-	-	-	18.500	0.72835	148.00	217.00	-	20.00
8693900	●	-	-	-	19.000	0.74803	152.00	217.00	-	19.00
8703900	●	-	-	-	19.000	0.74803	152.00	217.00	-	20.00
651075011	●	3/4	-	-	19.050	0.75000	154.00	217.00	0.750	-
651075711	●	-	-	-	19.250	0.75787	154.00	217.00	-	20.00
8693950	●	-	-	-	19.500	0.76772	156.00	225.00	-	20.00
8694000	●	-	-	-	20.000	0.78740	160.00	225.00	-	20.00

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Carbon Steel			Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium						
Low	Medium	High						6061	7075	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
1010	1035	1065	4140	4340	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1018	1045				○	○	○	○	○	○	○	○	○	○	○	○	○	○

○ Good ○ Best

