



EXOCARB® Diamond

OSG Patented Diamond Coated Taps for High SiC Aluminum, MMC, and Carbon Fiber

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EXOCARB® DIA-OTT, UNJF, DIN Overall Length

STRAIGHT FLUTE	CARBIDE	DIA	C/1.5P	C/2.5P	0°	PACKED 1 PIECE
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EDP	Thread Size	Class of Fit	Chamfer Type	Overall Length	Thread Length	Neck Length	Shank Diameter	Square Width	Square Length	Number of Flutes	
				L (Inch)	Lc (Inch)	L1 (Inch)	d (Inch)	k (Inch)	lk (Inch)		
3291216	●	No. 4 - 40 UNC	3B	Bottom (1.5P)	2.205	0.295	0.705	0.141	0.110	0.188	3
3297016	●	No. 4 - 40 UNC	2B	Modified Bottom (2.5P)	2.205	0.295	0.705	0.141	0.110	0.188	3
3291316	●	No. 6 - 32 UNC	3B	Bottom (1.5P)	2.205	0.370	0.783	0.141	0.110	0.188	3
3297116	●	No. 6 - 32 UNC	2B	Modified Bottom (2.5P)	2.205	0.370	0.783	0.141	0.110	0.188	3
3291416	●	No. 8 - 32 UNC	3B	Bottom (1.5P)	2.480	0.374	0.827	0.168	0.131	0.250	3
3297216	●	No. 8 - 32 UNC	2B	Modified Bottom (2.5P)	2.480	0.374	0.827	0.168	0.131	0.250	3
3291516	●	No. 10 - 24 UNC	3B	Bottom (1.5P)	2.756	0.500	0.984	0.194	0.152	0.250	4
3297316	●	No. 10 - 24 UNC	2B	Modified Bottom (2.5P)	2.756	0.500	0.984	0.194	0.152	0.250	4
3291616	●	No. 10 - 32 UNF	3B	Bottom (1.5P)	2.756	0.500	0.984	0.194	0.152	0.250	4
3297416	●	No. 10 - 32 UNF	2B	Modified Bottom (2.5P)	2.756	0.500	0.984	0.194	0.152	0.250	4
3291716	●	1/4 - 20 UNC	3B	Bottom (1.5P)	3.150	0.606	1.189	0.255	0.191	0.313	4
3297516	●	1/4 - 20 UNC	2B	Modified Bottom (2.5P)	3.150	0.606	1.189	0.255	0.191	0.313	4
3291816	●	1/4 - 28 UNF	3B	Bottom (1.5P)	3.150	0.606	1.189	0.255	0.191	0.313	4
3297616	●	1/4 - 28 UNF	2B	Modified Bottom (2.5P)	3.150	0.606	1.189	0.255	0.191	0.313	4
3298516	●	5/16 - 18 UNC	3B	Bottom (1.5P)	3.543	0.665	1.378	0.318	0.238	0.375	4
3297716	●	5/16 - 18 UNC	2B	Modified Bottom (2.5P)	3.543	0.665	1.378	0.318	0.238	0.375	4
3298616	●	5/16 - 24 UNF	3B	Bottom (1.5P)	3.543	0.665	1.378	0.318	0.238	0.375	4
3297816	●	5/16 - 24 UNF	2B	Modified Bottom (2.5P)	3.543	0.665	1.378	0.318	0.238	0.375	4
3298716	●	3/8 - 16 UNC	3B	Bottom (1.5P)	3.937	0.752	1.378	0.381	0.286	0.438	4
3297916	●	3/8 - 16 UNC	2B	Modified Bottom (2.5P)	3.937	0.752	1.378	0.381	0.286	0.438	4
3298816	●	3/8 - 24 UNF	3B	Bottom (1.5P)	3.937	0.752	1.378	0.381	0.286	0.438	4
3298016	●	3/8 - 24 UNF	2B	Modified Bottom (2.5P)	3.937	0.752	1.378	0.381	0.286	0.438	4
3298916	●	7/16 - 14 UNC	3B	Bottom (1.5P)	3.937	0.858	-	0.323	0.242	0.406	5
3298116	●	7/16 - 14 UNC	2B	Modified Bottom (2.5P)	3.937	0.858	-	0.323	0.242	0.406	5
3299016	●	7/16 - 20 UNF	3B	Bottom (1.5P)	3.937	0.858	-	0.323	0.242	0.406	5
3298216	●	7/16 - 20 UNF	2B	Modified Bottom (2.5P)	3.937	0.858	-	0.323	0.242	0.406	5
3299116	●	1/2 - 13 UNC	3B	Bottom (1.5P)	4.331	0.921	-	0.367	0.275	0.438	5
3298316	●	1/2 - 13 UNC	2B	Modified Bottom (2.5P)	4.331	0.921	-	0.367	0.275	0.438	5
3299216	●	1/2 - 20 UNF	3B	Bottom (1.5P)	4.331	0.921	-	0.367	0.275	0.438	5
3298416	●	1/2 - 20 UNF	2B	Modified Bottom (2.5P)	4.331	0.921	-	0.367	0.275	0.438	5

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked
Note: 3B fit taps conform to UNJ Aerospace internal threading applications.



P				M			K Cast Iron	N				S		Other				
Steel				Stainless Steel				Non-Ferrous				HRSA		Fiberglass	Cobalt-Chrome	Thermo-Plastics	Thermo-setting Plastics	
Carbon Steel			Alloy Steel 4140 4340	Die Steel	300	400		17-4 PH	Aluminum		MMC (Metal Matrix Composites)	Copper Alloys	Nickel Alloy					Titanium
Low 1010 1018	Medium 1035 1045	High 1065							Inconel	6Al4V (30 HRC)								
								⊙	⊙	⊙	○			⊙				
								60-160 SFM	55-120 SFM	30-60 SFM	40-80 SFM			30-60 SFM				

○ Good ⊙ Best

