

CONSUMABLES FOR CUTTING PROCESS

Cutting is the first and most important step in metallographic sample preparation.

The selection of the correct cutting disc, based on sample materials and hardness, grants faster cutting and lower disc consumption.

All cutting discs have been manufactured with high quality materials to reduce the influence on material's properties.

Usage of cooling lubricants and anti-rust agents prevents sample overheating and oxidation.

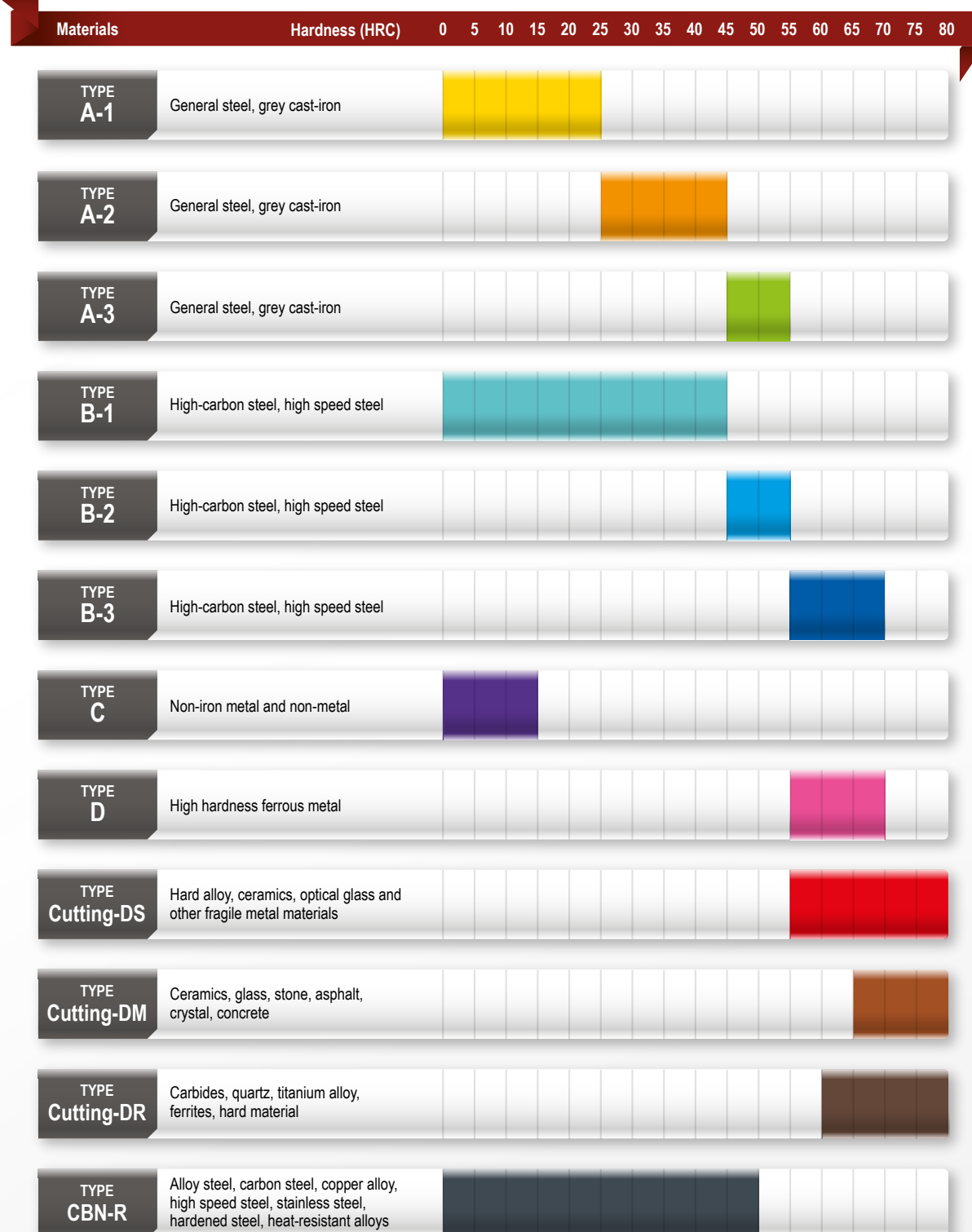
echoLAB can provide a complete range of cutting consumables to meet all preparation requirements.

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CUTTING DISCS SELECTION GUIDE



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ABRASIVE CUTTING DISCS - Arbor 32mm

Cutting discs Type -A

Code	Model	Diameter mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
90A1200	A1	200	0,8-2	10	1,5	General steel and grey cast-iron with hardness <25 HRC
90A1250	A1	250	1,2-2	10	2	
90A1300	A1	300	1,5-2	10	3,3	
90A1350	A1	350	2,5	10	5,4	
90A1400	A1	400	2,8	10	8,3	

90A2200	A2	200	0,8-2	10	1,5	General steel and grey cast-iron with hardness 25÷45 HRC
90A2250	A2	250	1,2-2	10	2	
90A2300	A2	300	1,5-2	10	3,3	
90A2350	A2	350	2,5	10	5,4	
90A2400	A2	400	2,8	10	8,3	

90A3200	A3	200	0,8-2	10	1,5	General steel and grey cast-iron with hardness 45÷55 HRC
90A3250	A3	250	1,2-2	10	2	
90A3300	A3	300	1,5-2	10	3,3	
90A3350	A3	350	2,5	10	5,4	
90A3400	A3	400	2,8	10	8,3	

Cutting discs Type -B

Code	Model	Diameter mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
90B1200	B1	200	0,8-2	10	1,8	High-carbon steel and high-speed steel with hardness <45 HRC
90B1250	B1	250	1,2-2	10	2,4	
90B1300	B1	300	1,5-2	10	3,6	
90B1350	B1	350	2,5	10	5,8	
90B1400	B1	400	2,8	10	8,6	

90B2200	B2	200	0,8-2	10	1,8	High-carbon steel and high-speed steel with hardness 45÷55 HRC
90B2250	B2	250	1,2-2	10	2,4	
90B2300	B2	300	1,5-2	10	3,6	
90B2350	B2	350	2,5	10	5,8	
90B2400	B2	400	2,8	10	8,6	

90B3200	B3	200	0,8-2	10	1,8	High-carbon steel and high-speed steel with hardness 55÷70 HRC
90B3250	B3	250	1,2-2	10	2,4	
90B3300	B3	300	1,5-2	10	3,6	
90B3350	B3	350	2,5	10	5,8	
90B3400	B3	400	2,8	10	8,6	



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Cutting discs Type -C						
Code	Model	Diameter mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
90C0200	C	200	0,8-2	10	1,3	Non-iron metal and non-metal with hardness ≤15 HRC
90C0250	C	250	1,2-2	10	1,9	
90C0300	C	300	1,5-2	10	2,8	
90C0350	C	350	2,5	10	4,9	
90C0400	C	400	2,8	10	7,5	

Cutting discs Type -D						
Code	Model	Diameter mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
90D0200	D	200	0,8-2	10	2,3	High hardness ferrous metal with hardness 55÷70 HRC
90D0250	D	250	1,2-2	10	2,8	
90D0300	D	300	1,5-2	10	3,9	
90D0350	D	350	2,5	10	6	
90D0400	D	400	2,8	10	9,2	

Cooling liquid for cutting machines				
Code	Model	Quantity l	Usage	Weight kg
1100101	Cooling-C	1	Anti-oxidation-Cooling	1,3
1100251		2,5	Anti-oxidation-Cooling	2,8
1100501		5	Anti-oxidation-Cooling	5,5
1101001		10	Anti-oxidation-Cooling	10,5
1100051		0,5	Anti-septic	0,8



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DIAMOND CUTTING DISCS

Diamond, edge sintering type, cutting discs

Code	Model	Diameter mm	Arbor mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
1031000	Cutting-DS	100	20	0,5	1	0,1	Hard alloy, ceramic material, optical glass and other fragile metal materials with hardness 60÷82 HRC
1031250		125	25,4	0,5	1	0,1	
1031500		150	25,4	0,6	1	0,1	
1032000		200	32	1	1	0,2	
1032500		250	32	2	1	0,3	
1033500		350	32	2,5	1	0,5	

Diamond, metal bond, cutting discs

Code	Model	Diameter mm	Arbor mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
1000760	Cutting-DM	76	12,7	0,2	1	0,2	Ceramics, glass, stone, asphalt, crystal, concrete with hardness >62 HRC
1001000		100	12,7	0,5	1	0,2	
1001250		125	12,7	0,5	1	0,2	
1001500		150	12,7	0,6	1	0,3	
1001780		178	12,7	0,7	1	0,4	
1002000		200	32	0,9	1	0,6	
1002500		250	32	1,2	1	0,8	
1003000		300	32	1,4	1	1,2	

Diamond, resin bond, cutting discs

Code	Model	Diameter mm	Arbor mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
1011000	Cutting-DR	100	12,7	0,5	1	0,2	Carbides, quartz, titanium alloy, ferrites, hard material with hardness >52 HRC
1011250		125	12,7	0,5	1	0,2	
1011500		150	12,7	0,6	1	0,3	
1011780		178	12,7	0,7	1	0,4	
1012000		200	32	0,9	1	0,5	
1012500		250	32	1,2	1	0,8	
1013000		300	32	1,4	1	1,2	

CBN, resin bond, cutting discs

Code	Model	Diameter mm	Arbor mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
1021000	CBN-R	100	12,7	0,5	1	0,2	Alloy steels, carbon steels, copper alloy, high speed steel, stainless steel, hardening steels, heat resistant alloys with hardness <49 HRC
1021250		125	12,7	0,5	1	0,2	
1021500		150	12,7	0,6	1	0,3	
1021780		178	12,7	0,7	1	0,4	
1022000		200	32	0,9	1	0,5	
1022500		250	32	1,2	1	0,8	
1023000		300	32	1,4	1	1,2	

Cooling liquid for micro-cutting

Code	Model	Quantity l	Anti-rust mix	Usage	Weight kg
1110101	Cooling-MC	1	4%	Lubrication-Anti-oxidation	1,3
1110251		2,5	4%	Lubrication-Anti-oxidation	2,8
1110501		5	4%	Lubrication-Anti-oxidation	5,5
1111001		10	4%	Lubrication-Anti-oxidation	10,5

Dressing stone for diamond cutting discs

Code	Model	Usage	Q.ty per pack	Weight kg
80DD000	Dressing Stone-CD	Metal and resin bond discs	1	0,8

