

SumiDIA WD Blanks

• Sumitomo has recently introduced a new "high density" PCD wire die blank. These new die blanks contain more diamond and less metal catalyst resulting in a PCD material which has a significantly higher abrasion resistance.

• There are three new series of blanks and all are available with 1, 3, 5, 12 and 25 micron diamond.



- WD700 series is free standing cylinder of PCD diamond (no carbide support ring).
- WD800 series is the same as the WD700 series but it has been made thermally stable to 1,000°C. This is important when mounting the die blank with high temperature brazing alloy or drawing wire in a high temperature condition.
- WD900 series is a PCD cylinder with a tungsten carbide support ring.

SumiDIA WD Wire Die Blanks (High Density PCD)

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*ADDMA No.	Product No.	Diamond Micron Size (A.P.S.)				Nominal Dimensions (mm)	
		Grain Size				Diamond Diameter (d)	Diamond Thickness (t)
		1	5	12	25		
D-6	WD705	F	M	C	E	2.5	1.0
D-12	WD710	F	M	C	E	3.2	1.5
D-15	WD715	F	M	C	E	5.2	2.5
D-18	WD720	F	M	C	E	5.2	3.5
D-6	WD805	F	M	C	E	2.5	1.0
D-12	WD810	F	M	C	E	3.2	1.5
D-15	WD815	F	M	C	E	5.2	2.5
D-18	WD820	F	M	C	E	5.2	3.5

Blank Shape

■ Denotes Diamond

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*ADDMA No.	Product No.	Diamond Micron Size (A.P.S.)					Nominal Dimensions (mm)		
		Grain Size					Diamond Diameter (d)	Diamond Thickness (t)	Blank Diameter (D)
		1	3	5	12	25			
D-12	WD910	F	S	M	C	E	1.5	1.5	4.0
D-15	WD915	F	S	M	C	E	4.0	2.3	8.12
D-18	WD920	F	S	M	C	E	4.0	2.9	8.12
D-21	WD925		S	M	C	E	7.0	4.0	13.65
D-24	WD930		S	M	C	E	7.0	5.3	13.65
D-27	WD940			M	C	E	8.7	7.5	14.5
D-27	WD945			M	C	E	13.0	9.0	24.13
D-30	WD950			M	C	E	13.0	12.0	24.13
D-33	WD960				C	E	16.0	16.0	24.13
D-36	WD970					E	19.0	19.0	35.0
-	WD975					E	25.0	20.0	42.0
-	WD980					E	30.0	22.0	47.0
-	WD990					E	40.0	25.0	67.0
-	WD995					E	45.0	27.0	67.0

Tungsten Carbide

Diamond