

Sanxin Wire Die, Inc. - Selection of PCD Blanks Oct-2008

IMPERIAL + METRIC VERSION:

Min.D (IN)	Max.D (IN)	Min.D (mm)	Max.D (mm)	Blank Code	ADDMA	Grain Sizes (Microns)	Nib Type/Application
0.0039	0.0197	0.100	0.500	5010	D6	005	Compax®
0.0039	0.0197	0.100	0.500	WD705	D6	001/005/012/025	Sumidia®
0.0039	0.0197	0.100	0.500	WD805	D6	001/005/025	Sumidia® High Temp.Mtg
0.0039	0.0197	0.100	0.500	2510	D6	003/005/010	Xinya®
0.0079	0.0394	0.200	1.000	5015	D12	005	Compax®
0.0079	0.0315	0.200	0.800	5235	D12	025	Compax® Tung. Carb. Supp.
0.0079	0.0315	0.200	0.800	5815	D12	003	Compax® HF Tung.Carb.Supp
0.0079	0.0394	0.200	1.000	WD710	D12	001/005/012/025	Sumidia®
0.0079	0.0394	0.200	1.000	WD810	D12	001/005/025	Sumidia® High Temp.Mtg
0.0079	0.0315	0.200	0.800	WD910	D12	001/003/005/025	Sumidia® Tung. Carb. Supp.
0.0079	0.0394	0.200	1.000	3215	D12	003/005/010	Xinya®
0.0197	0.0591	0.500	1.500	5025	D15	005	Compax®
0.0197	0.0709	0.500	1.800	5223	D15	025	Compax® Tung. Carb. Supp.
0.0197	0.0709	0.500	1.800	5430	D15	050	Compax® Tung. Carb. Supp.
0.0197	0.0709	0.500	1.800	5823	D15	003	Compax® HF Tung.Carb.Supp
0.0197	0.0591	0.500	1.500	WD715	D15	001/005/012/025	Sumidia®
0.0197	0.0591	0.500	1.500	WD815	D15	001/005/025	Sumidia® High Temp.Mtg
0.0197	0.0709	0.500	1.800	WD915	D15	001/003/005/025	Sumidia® Tung. Carb. Supp.
0.0197	0.0591	0.500	1.500	X5225	D15	003/005/010/025	Xinya®
0.0197	0.0591	0.500	1.500	4023	D15	003/005/010/025	Xinya® Tung. Carb. Supp.
0.0394	0.0787	1.000	2.000	5035	D18	005	Compax®
0.0394	0.0906	1.000	2.300	5229	D18	025	Compax® Tung. Carb. Supp.
0.0394	0.0906	1.000	2.300	5435	D18	050	Compax® Tung. Carb. Supp.
0.0394	0.0906	1.000	2.300	5829	D18	003	Compax® HF Tung.Carb.Supp.
0.0394	0.0787	1.000	2.000	WD720	D18	001/005/012/025	Sumidia®
0.0394	0.0787	1.000	2.000	WD820	D18	001/005/025	Sumidia® High Temp.Mtg
0.0394	0.0906	1.000	2.300	WD920	D18	001/003/005/025	Sumidia® Tung. Carb. Supp.
0.0394	0.0787	1.000	2.000	X5235	D18	003/005/010/025	Xinya®
0.0394	0.0906	1.000	2.300	4029	D18	003/005/010/025	Xinya® Tung. Carb. Supp.
0.0591	0.1378	1.500	3.500	5840	D21	005	Compax® HF Tung.Carb.Supp.
0.0591	0.1378	1.500	3.500	5340	D21	025	Compax® Tung. Carb. Supp.
0.0591	0.1378	1.500	3.500	5530	D21	050	Compax® Tung. Carb. Supp.
0.0591	0.1378	1.500	3.500	WD925	D21	003/005/012/025	Sumidia® Tung. Carb. Supp.
0.0591	0.1181	1.500	3.000	8040	D21	005/010/025/050	Xinya®
0.0591	0.1299	1.500	3.300	7040	D21	005/010/025/050	Xinya® Tung. Carb. Supp.
0.0787	0.1811	2.000	4.600	5853	D24	005	Compax® Tung. Carb. Supp.
0.0787	0.1811	2.000	4.600	5253	D24	025	Compax® Tung. Carb. Supp.
0.0787	0.1811	2.000	4.600	5535	D24	050	Compax® Tung. Carb. Supp.
0.0787	0.1811	2.000	4.600	WD930	D24	003/005/012/025	Sumidia® Tung. Carb. Supp.
0.0787	0.1575	2.000	4.000	9853	D24	005/010/025/050	Xinya®
0.0787	0.1811	2.000	4.600	7053	D24	005/010/025/050	Xinya® Tung. Carb. Supp.
0.0984	0.2283	2.500	5.800	5208	D27	025	Compax® Tung. Carb. Supp.
0.0984	0.2283	2.500	5.800	5730	D27	050	Compax® Tung. Carb. Supp.
0.0984	0.2126	2.500	5.400	WD940	D27	005/012/025	Sumidia® Tung. Carb. Supp.
0.0984	0.2283	2.500	5.800	WD945	D27	005/012/025	Sumidia® Tung. Carb. Supp.
0.0984	0.1969	2.500	5.000	13085	D27	010/025/050	Xinya®
0.0984	0.2283	2.500	5.800	13086	D27	010/025/050	Xinya® Tung. Carb. Supp.

Min.D (IN)	Max.D (IN)	Min.D (mm)	Max.D (mm)	Blank Code	ADDMA	Grain Sizes (Microns)	Nib Type/Application
0.1181	0.2992	3.000	7.600	5211	D30	025	Compax® Tung. Carb. Supp.
0.1181	0.2992	3.000	7.600	5735	D30	050	Compax® Tung. Carb. Supp.
0.1181	0.2992	3.000	7.600	WD950	D30	005/012/025	Sumidia® Tung. Carb. Supp.
0.1181	0.2756	3.000	7.000	16120	D30	010/025/050	Xinya®
0.1181	0.2992	3.000	7.600	13116	D30	010/025/050	Xinya® Tung. Carb. Supp.
0.1575	0.3386	4.000	8.600	15120	D31	025	Xinya® Tung. Carb. Supp.
0.1575	0.3622	4.000	9.200	5913	D33	050	Compax® Tung. Carb. Supp.
0.1575	0.4500	4.000	11.430	WD960	D33	005/012/025	Sumidia® Tung. Carb. Supp.
0.1969	0.4724	5.000	12.000	5915	D33	050	Compax® Tung. Carb. Supp.
0.1575	0.3780	4.000	9.600	15150	D33	025	Xinya® Tung. Carb. Supp.
0.1969	0.4134	5.000	10.500	18150	D33	025	Xinya® Tung. Carb. Supp.
0.3150	0.5000	8.000	12.700	WD970	D36	025	Sumidia® Tung. Carb. Supp.
0.3150	0.5512	8.000	14.000	12580	D36	050	Xinya® Tung. Carb. Supp.
0.3937	0.7000	10.000	17.780	WD975	D36+	025	Sumidia® Tung. Carb. Supp.
0.3937	0.7480	10.000	19.000	WD980	D36+	025	Sumidia® Tung. Carb. Supp.
0.5906	1.0118	15.000	25.700	WD990	D36+	025	Sumidia® Tung. Carb. Supp.
0.7874	1.1417	20.000	29.000	WD995	D36+	025	Sumidia® Tung. Carb. Supp.

Note on Maximum and Minimum Drawing Diameters:

Within broad limits, a larger PCD Blank than necessary for the immediate task may be specified, in order to extend the life of the die by increasing the number of possible recuts.

The Maximum Drawing Diameters of each of the PCD Blanks in the above table are given on the assumption that soft metals such as Copper or Aluminum are being drawn.

Sanxin may de-rate the Maximum Drawing Diameter for any of the above PCD Blanks when the application calls for drawing very hard materials.

For example, when drawing Brass or Bronze, the de-rating factor may be 0.9
When drawing Stainless Steel at full hardness, the de-rating factor may be 0.65

Note on PCD Grain Size:

Choice of the appropriate PCD Grain Size will in general depend on the PCD Blank and the particulars of the process. No guarantees are implied or given regarding the availability of PCD Blanks in all Grain Sizes specified in the table above.

Notes on PCD Selection:

Sumidia® and Compax® - Any application where cost is not the first consideration. These two product ranges have the broadest capabilities and are most fully featured. Sumidia® is particularly effective in Fine Grain, providing a near perfect surface finish. Sumidia® now also offers extremely good Price/Performance up to D18 Unsupported.

Xinya® - Copper and alloys, Aluminum and alloys, Stainless Steel up to ¼ Hard. Extremely cost/effective where perfect surface finish is not the first consideration and the material being drawn is not fully hardened.

Sumidia® and Compax® are registered trademarks of Sumitomo Corporation and Diamond Innovations Inc. respectively. The products are not owned by Sanxin, but are purchased by Sanxin as required, for incorporation in Sanxin's products.