



CAN TOOLING PRODUCTS AND MATERIALS



CAN TOOLING PRODUCT AREAS



CUPPER PRESS



BODYMAKER

A large, dark gray, 3D-rendered ring or flange component is positioned in the background, partially obscured by the text box.

iAlloys can tooling products are available as unground blanks or utility ground, “ready to finish” blanks developed to maximize our customer’s finishing operations.



CARBIDE GRADES FOR CAN TOOLING

Copper Press Tooling Grades

IA124X

die centers, draw pads, cut edge dies, and draw blank dies

IA13X

Chopper Blades

Bodymaker Tooling Grades

IA6F

Ironing Dies

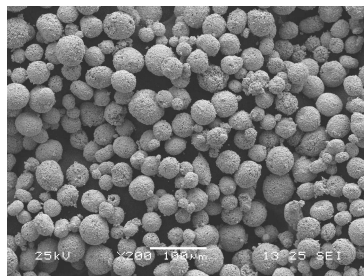
IA101S

Punch Sleeves, Redraw Sleeves

IA124X

Punch Sleeves, Redraw Sleeves, Redraw Dies

iAlloys carbide grades are produced in ISO certified, fully integrated manufacturing facilities utilizing state of the art spray drying, pressing and sinterhip technology to ensure our products provide consistent, lot-to-lot quality and performance.





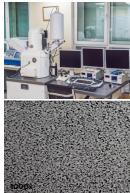
GRADE SPECIFICATIONS

IA6F SUB-MICRON CEMENTED CARBIDE

IA6F with 6% binder and sub-micron grain structure provides very high hardness for maximum life in the toughest wear applications. This grade is ideal for low impact / high wear applications such as Ironing Dies, Belt Cleaning Blades, Pelletizing Dies, Wire Drawing Nibs, Reamers, Compaction Tooling, Attritor Balls and Wear Liners.

This grade utilizes 100% Virgin Powder and is processed using SinterHip Technology to maximize consistency and performance.

CHEMICAL AND PHYSICAL PROPERTIES

	Chemical Composition		Physical Properties			Micro-Structure	
	WC	Co	Hardness	Density	TRS	Grain Size	Porosity
	%		HRA	g/cm ³	psi	µm	ABC
	94.0	6.0	92.5 - 93.0	14.90	435K	0.7	A02B00C00

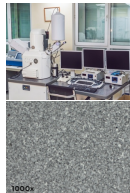
All data are typical values - *TRS in accordance with ASTM Standard B406

IA124X CEMENTED CARBIDE

IA124X provides good wear resistance combined with excellent toughness and impact resistance. Applications for this grade include Compacting Dies, Can Tooling, 2 Piece Can Tab Tooling, Coining Dies, Shear Knives, HPGR Studs, Edge Blocks and various other wear components.

This grade utilizes 100% Virgin Powder and is processed using SinterHip Technology to maximize consistency and performance.

CHEMICAL AND PHYSICAL PROPERTIES

	Chemical Composition		Physical Properties			Micro-Structure	
	WC	Co	Hardness	Density	TRS	Grain Size	Porosity
	%		HRA	g/cm ³	psi	µm	ABC
	88	12	90.0	14.13	545K	1.0	A02B00C00

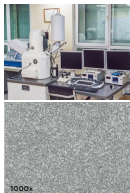
All data are typical values - *TRS in accordance with ASTM Standard B406

IA13X SUB-MICRON CEMENTED CARBIDE

IA13X provides excellent wear resistance and edge strength combined with toughness and impact resistance. Applications for this grade include Metal Forming Punches & Dies, Can Tooling, Razor Blade Dies, Stamping, Lead Frame & Lamination Dies and various other wear components.

This grade utilizes 100% Virgin Powder and is processed using SinterHip Technology to maximize consistency and performance.

CHEMICAL AND PHYSICAL PROPERTIES

	Chemical Composition		Physical Properties			Micro-Structure	
	WC	Co	Hardness	Density	TRS	Grain Size	Porosity
	%		HRA	g/cm ³	psi	µm	ABC
	87.5	12.5	91.0	14.10	525K	0.7	A02B00C00

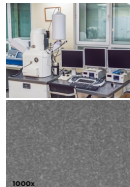
All data are typical values - *TRS in accordance with ASTM Standard B406

IA101S SUB-MICRON CEMENTED CARBIDE

IA101S with 10% binder and sub-micron grain structure provides very high hardness for maximum life in the toughest wear applications. This grade is ideal for medium to high impact / high wear applications such as Bodymaker Punches, Stamping Punches, Pelletizing Blades, Cutting Tools, Powder Compaction Tooling, Metal Cutting Hobs and applications requiring a balance of impact and wear resistance.

This grade utilizes 100% Virgin Powder and is processed using SinterHip Technology to maximize consistency and performance.

CHEMICAL AND PHYSICAL PROPERTIES

	Chemical Composition		Physical Properties			Micro-Structure	
	WC	Co Cr3C2	Hardness	Density	TRS	Grain Size	Porosity
	%		HRA	g/cm ³	psi	µm	ABC
	90.0	10.0	92.5	14.45	550K	0.7	A02B00C00

All data are typical values - *TRS in accordance with ASTM Standard B406



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