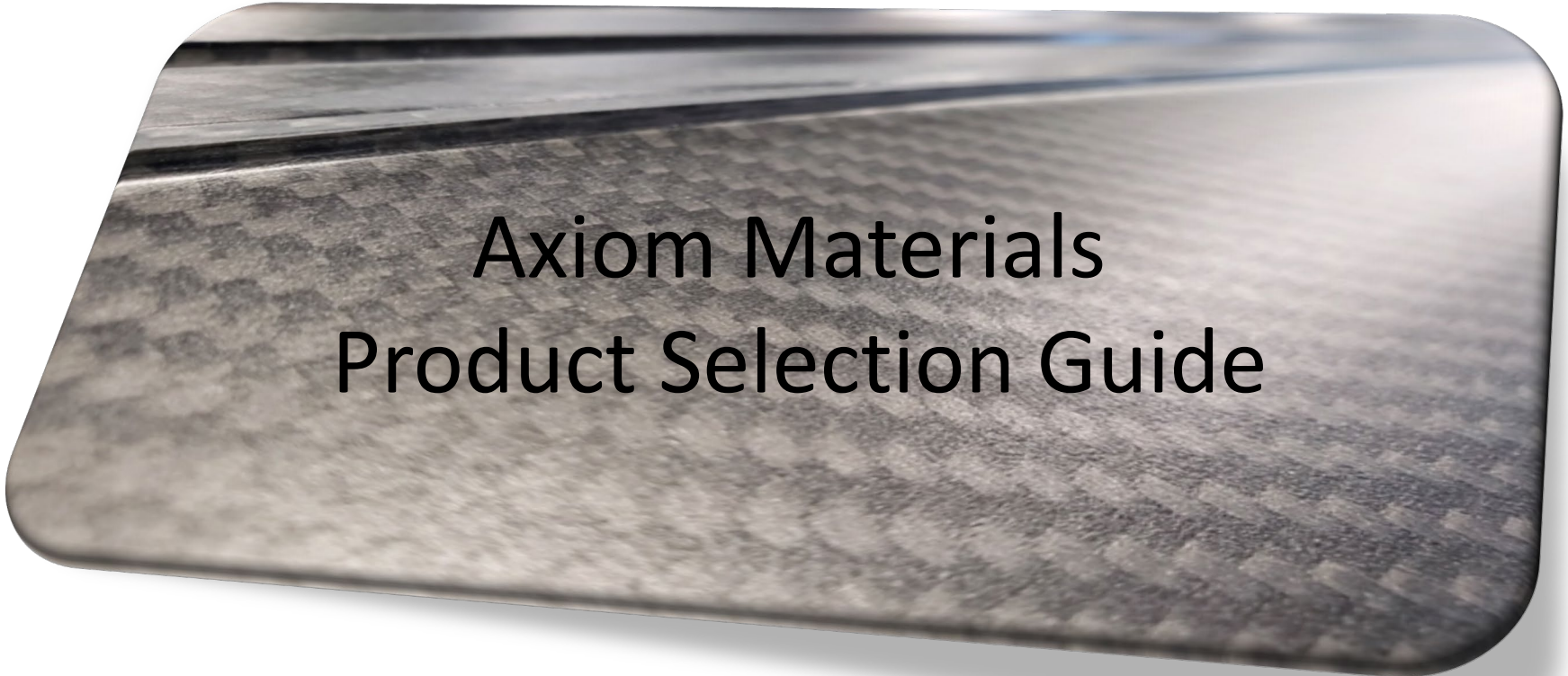




Axiom Materials Product Selection Guide

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Product Naming Key

1) All materials start with 'AX-' to identify them as Axiom products

2) The first number designates the product category:

1XXX: Primers, pastes, and putties (canned goods)

2XXX: Film adhesives

3XXX: Woven prepregs, fiberglass or quartz

4XXX: Woven prepregs, aramid

5XXX: Woven prepregs, carbon

6XXX: Unidirectional prepregs

7XXX: CMC prepreg

8XXX: Specialty CMC products

3) The last 3 numbers of the initial sequence of a product identify the resin system. Each resin system has a unique 3 number code ('110' in the above example). It will generally require reference to technical data or sales engineers to determine resin system properties.

4) Fabrics are identified using industry-standard product numbers. Fabric weaves may be determined by referencing a technical fabric handbook.

5) Widths are presented in inches and identified as the third group of numbers in the product sequence.

6) Letters at the end of the product number help determine special product characteristics.

7) Colors are simply identified. Examples: 'Black', 'Yellow', 'Red', for most resin systems, color variations are available.

EXAMPLE:

Sample Product Name: AX-3110-7781-50" Black RC38%

3110 series woven hot melt prepreg made with style 7781 fiberglass (satin weave, 298gsm) at 50" width and having 38% resin content, colored black.

Code	Product Characteristic
C	Carbon Filler Added (e.g. AX-5300C)
CD	Conductive
EL	Extended Life
ET	Extra Tack
F	Filled with Milled Fibers
FR	Flame Retardant
G	Glass Beads Added
HT	High Temperature (Higher Service Temperature Than Standard Product)
L	Long Out Life
LF	Low Flow
LHR	Low Heat Release
LT	Low Temperature Curing

Code	Product Characteristic
M	Mid-Grade Curing (250°F nominal)
N	Nylon Support Carrier
OST	One Side Tack
PG	Press Grade
QC	Quick Curing
S	Speedy Cure (Variable Cure Temperature)
S	Silica Filler Added (e.g. AX-3300S)
SC	Snap Cure
T	Tower Grade
TXT	Textreme®
U	Unsupported
UV	Ultraviolet (UV) Stabilized

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Product	Description	Applications	Form	Color	Max. Continuous Operating Temp, °F (°C)	Max. Short Term Use Temp, °F (°C)	Comments
AX-7605	Modified Silica Ceramic Prepreg	High service temp laminates for insulation & aircraft structures	Woven Prepreg	Off-White on white	932°F (500°C)	1832°F (1000°C)	Free standing post cure at desired service temperature recommended.
AX-7800-610	High Modulus, High Strength, solvent-free ceramic matrix	Aircraft engine components, ducting, oil & gas tubing, advanced energy, motorsports	Woven prepreg	White on white	1652°F (900°C)	2000°F (1093°C)	High-Temperature structural applications, solvent-free ceramic matrix
AX-7810-610	High Modulus, High Strength CMC	Aircraft engine components, ducting, oil & gas tubing, advanced energy, motorsports	Woven prepreg	White on white	1652°F (900°C)	2000°F (1093°C)	High-Temperature structural applications
AX-7810UD	High Modulus, High Strength CMC	Advanced Fiber Placement & Automated Tape Laying	Unidirectional Prepreg, AFP Tape	White on white	1652°F (900°C)	2000°F (1093°C)	High-Temperature structural applications
AX-7820	High Modulus, High Strength, Corrosion Resistant, solvent-free ceramic matrix	Aircraft engine components, ducting, oil & gas tubing, advanced energy, motorsports	Woven prepreg	White on white	2100°F (1150°C)	2372°F (1300°C)	High-Temperature structural applications, solvent-free ceramic matrix
AX-7900-720	Solvent-based Ceramic Matrix Composite (CMC) Prepreg, Low Creep / High Temperature	Aircraft engine components, ducting, oil & gas tubing, advanced energy, motorsports	Woven prepreg	White on white	1832°F (1000°C)	2100°F (1150°C)	Low creep, low dielectric, high use temperature applications
AX-7900UD	Solvent-based Ceramic Matrix Composite (CMC) Unidirectional Prepreg, Low Creep / High Temperature	Advanced Fiber Placement & Automated Tape Laying	Unidirectional Prepreg, AFP Tape	White on white	1832°F (1000°C)	2100°F (1150°C)	Low creep, low dielectric, high use temperature applications
AX-7900-312	Solvent-based Ceramic Matrix Composite (CMC) Prepreg, Low Dielectric	Thermal/fire barriers, exhaust components, refractory, furnace hardware, insulation, RF transparent radomes	Woven prepreg	White on white	1500°F (815°C)	1800°F (982°C)	Low cost, low dielectric, insulation or flame barrier applications

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Product	Description	Applications	Form	Matrix Color	Max. Continuous Operating Temp, °F (°C)	Max. Short Term Use Temp, °F (°C)	Comments
CerFace® AX-8810- BMC-CM	Solvent-based Ceramic Matrix Composite (CMC) Surfacing Film, Alumina Supported	Aircraft engine components, ducting, oil & gas tubing, advanced energy, motorsports	24" Wide Supported Film	White	1652°F (900°C)	2000°F (1093°C)	Improved surface finish, localized impact protection, co-cures with ox-ox solvent-based prepreg
CerFace® AX-8900	Solvent-based Ceramic Matrix Composite (CMC) Surfacing Film, Alumina-Mullite Supported	Aircraft engine components, ducting, oil & gas tubing, advanced energy, motorsports	24" Wide Supported Film	White	1832°F (1000°C)	2100°F (1150°C)	Improved surface finish, localized impact protection, co-cures with ox-ox solvent-based prepreg
AX-8900- BMC-IM	Ox-Ox Ceramic Matrix Composite (CMC) Injection Molding Compound	Radomes, Engine Volutes, Crucibles, Nozzles, Joints	Molding Compound	Grey	1832°F (1000°C)	2100°F (1150°C)	Lower cost, improved manufacture flexibility over pre-impregnated fabric
AX-8900- BMC-CM	Ox-Ox Ceramic Matrix Composite (CMC) Compression Molding Compound	Radomes, Engine Volutes, Crucibles, Nozzles, Joints	Molding Compound	Grey	1832°F (1000°C)	2100°F (1150°C)	Lower cost, improved manufacture flexibility over pre-impregnated fabric

Product Selection Guide – CMC ANCILLARY PRODUCTS

Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-1670	Silicon Carbide Slurry	Filament winding & and re-infiltration resin.	Slurry	Dark Grey	-	-	To be paired with SiC-based prepregs.
AX-1800	Water-Based Aluminosilicate Slurry	Re-infiltration of Ox-Ox CMCs and wet layup.	Slurry	White	-	-	To be paired with water-based CMC prepregs
AX-1900	Solvent-Based Aluminosilicate Slurry	Re-infiltration of Ox-Ox CMCs and wet layup.	Slurry	White	-	-	To be paired with solvent-based CMC prepregs
AX-1900FC	Oxide-Oxide Ceramic Fairing Compound	Surface filling/finishing of Ox-Ox CMCs.	1-component paste compound	White	-	-	Compatible with all CMC prepregs.

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