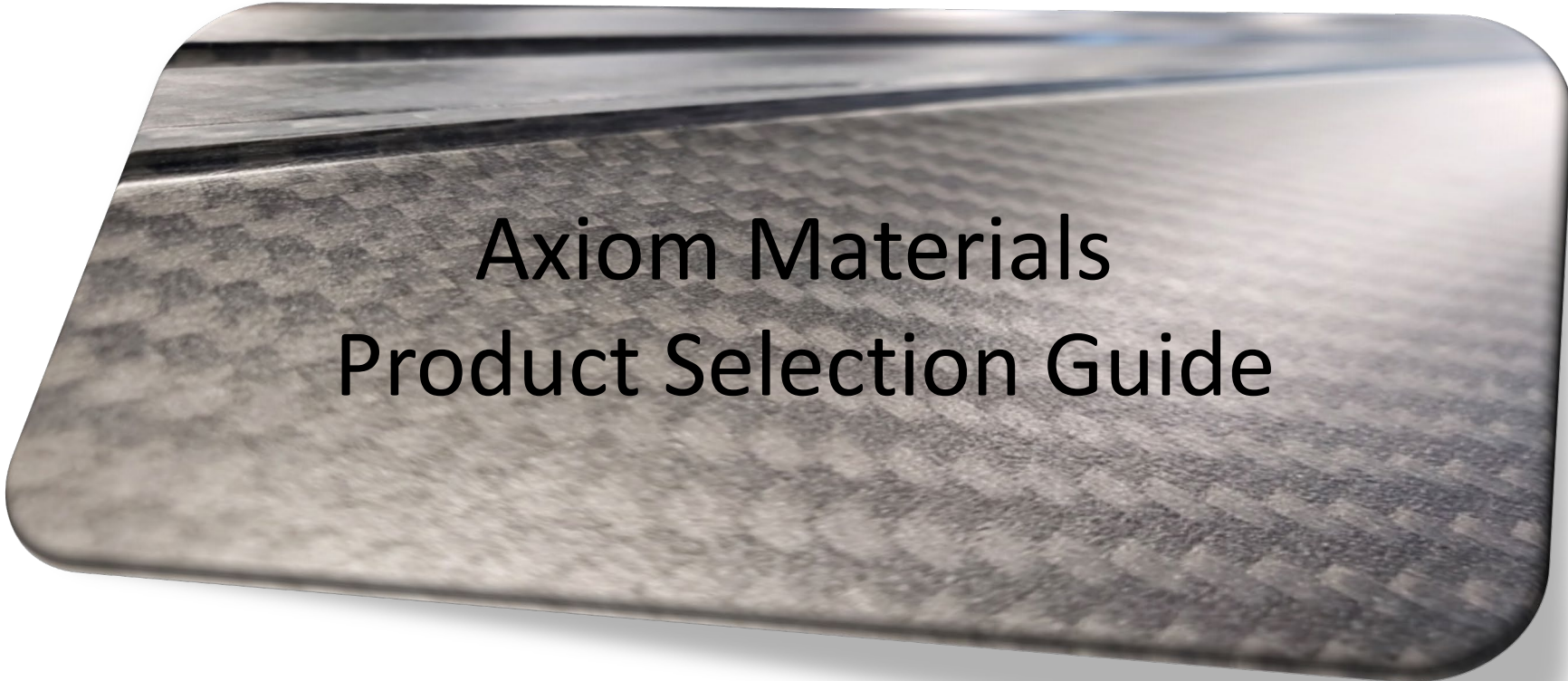




Axiom Materials Product Selection Guide

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AXIOM MATERIALS, Inc.
2320 Pullman St.
Santa Ana, CA 92705

PHONE	(949) 623-4400
EMAIL	Info@axiommaterials.com
WEBSITE	www.axiommaterials.com

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	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-1000	Corrosion Inhibiting Primer	General purpose corrosion inhibition for metal / metal bonding	Sprayable primer	Yellow	250°F (121°C) for bake	300°F (149°C)	Compatible with most 250°F (121°C) film adhesives;
AX-1000NC	Non-Chromated Corrosion Inhibiting Primer	General purpose corrosion inhibition for metal / metal bonding	Sprayable primer	Cream	250°F (121°C) for bake	300°F (149°C)	Compatible with most 250°F (121°C) film adhesives;
AX-1001	High Temperature Corrosion Inhibiting Primer	General purpose corrosion inhibition for high temperature metal / metal bonding	Sprayable primer	Red	350°F (177°C) for bake	360°F (182°C)	Compatible with most 350°F (177°C) film adhesives
AX-1001NC	Non-Chromated High Temperature Corrosion Inhibiting Primer	General purpose corrosion inhibition for high temperature metal / metal bonding	Sprayable primer	Red	350°F (177°C) for bake	360°F (182°C)	Compatible with most 350°F (177°C) film adhesives
AX-1013	General Purpose Structural Epoxy Paste Adhesive	Room temperature bonding for metal/metal, metal/composite, composite/composite parts	2-component paste compound	Cream	Room Temp.	180°F (82°C)	Self-leveling; Rapid clean up paste with excellent resistance to common industrial fluids
AX-1014	General Purpose, Two Component Epoxy Paste Adhesive	General purpose bonding of masonry, concrete, composites, and metals	2-component paste compound	Amber	Room Temp.	160°F (71°C)	Low viscosity. Designed for masonry-composite bonding
AX-1020	Flame Retardant Epoxy Paste	Flame retardant epoxy paste designed for bonding inserts into honeycomb structures	2-component paste compound	Off-White	Room Temp.	180°F (82°C)	Easy to use – Rapid clean up paste
AX-1023	Core Filler	Low Density epoxy dough used for core filling and potting	1-component epoxy paste	Red	250°F (121°C)	180°F (82°C)	Co-curable with many 200°F /250°F epoxy prepreps
AX-1033FR	Low Density, Flame Retardant Epoxy Core Edge Closeout	Core edge filling of honeycomb structures	2-component, low density dough	White	Room Temp.	180°F (82°C)	Designed for weight-sensitive applications
AX-1300	Phenolic Sealing Resin	Sealing and finishing of Phenolic composites	1-component resin	Amber or Black	300°F (149°C)	500°F (260°C)	Designed for coating and dipping applications
AX-1611	Polyimide Sealing Resin, MDA-Free	Sealing and finishing of polyimide composites	1-component resin	Amber or Black	350°F (177°C)	640°F (338°C)	Designed for coating and dipping applications

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-2114	Toughened Epoxy Film Adhesive	High performance applications for metallic and composites substrates	Adhesive film, supported	Off-white	250°F (121°C)	200°F (93°C)	Also available unsupported. Flame retardant and Low Heat Release versions are available
AX-2115	Toughened Epoxy Film Adhesive	Bonding of metallic, composite and thermoplastic substrates	Adhesive film, supported	Red	250°F (121°C)	200°F (93°C)	Also available unsupported. Color variations available.
AX-2116	Highest Performance, enhanced peel, Toughened Epoxy Film Adhesive	Aerospace grade, high peel bonding applications for metallic and composites substrates	Adhesive film, supported	Blue	250°F (121°C)	250°F (121°C)	Also available unsupported and a PFAS free (F) version.
AX-2121	Variable Temp. Cure Epoxy Film Adhesive	Low temperature curing for prototype development	Adhesive film, supported	Cream	160°F (71°C)	250°F (121°C)	Also available unsupported Snap cure (SC) and Low Temp (LT), Extended Out life (EL) versions are available
AX-2150	Light weight phenolic film adhesive	Promotes better adhesion for phenolic panel and parts	Adhesive film, unsupported	Light Blue	225°F (107°C) to 350°F (177°C)	250°F (121°C) using a 250°F Cure	
AX-2151	PVB Phenolic Ballistic Film Adhesive	Bonding promotion and high energy load transfer between fabrics for ballistic applications	Adhesive film, unsupported	Green	250°F (121°C)	200°F (93°C)	
AX-2190M/FR	Foaming Epoxy Core Splice Adhesive	Core splicing and edge-bonding of honeycomb cores and paneling.	Medium weight adhesive film	Cream	250°F (121°C)	300°F (149°C)	Available in a variety of forms. Flame retardant version is available.
AX-2140	Epoxy Surfacing & Finishing Film Adhesive	Surface finishing of composite parts. Co-cure with prepreg to reduce pitting and smooth part surfaces. Eliminates fill, fair, and repair	Adhesive film, supported	Grey	250°F (121°C) or 350°F (177°C)	250°F (121°C)	May be consolidated with lightning strike materials. Low temperature (LT) cure available.
AX-2215	Epoxy Surfacing Film	Designed to meet challenging demands for Class-A finishes for composite structures	Supported	Black	248°F (120°C) or 356°F (180°C)	334°F (168°C) using a 356°F Cure	

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-2130	High Temperature Epoxy Film Adhesive	High temperature metal / composite bonding, honeycomb bonding	Adhesive film, supported	Blue	Variable, 350°F (177°C)	330°F (166°C)	Available unsupported
AX-2131	High Temperature Epoxy Film Adhesive	High temperature metal / composite bonding, honeycomb bonding	Adhesive film, supported	Grey	350°F (177°C)	400°F (204°C)	Metal filled
AX-2135	High Temperature Epoxy Film Adhesive	High temperature metal / composite bonding, honeycomb bonding	Adhesive film, supported	Blue	350°F (177°C)	305°F (152°C)	Available unsupported
AX-2138	High Temperature, Toughened Epoxy Film Adhesive	High temperature metal / metal or composite bonding, honeycomb bonding / High peel strength applications	Adhesive film, supported	Green	285°F (135°C) or 350°F (177°C)	350°F (177°C)	Barrier film available for prepreg resin containment in sandwich structures Available unsupported
AX-2171	Cyanate Ester Film Adhesive	High temperature bonding of structural composites while offering good mechanical performance at operating temperatures up to 500°F (260°C).	Adhesive film, unsupported and supported	Off -white	250°F (121°C) to 350°F (177°C)	500°F (260°C)	With full post cure, it's capable of excursions to 600°F (316°C)

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-3100	Toughened Low Dielectric Epoxy Fiberglass Prepreg	High transmission applications, radomes	Woven Prepreg, solution coated	Off-white on white	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-3110	Toughened, Flame Retardant Epoxy Fiberglass Prepreg	Flame retardant laminates, honeycomb and foam panels	Woven Prepreg (1 or 2-side coated)	Off-white on white	250°F (121°C)	180°F (82°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):FR and Low Flow versions are available
AX-3112T	Toughened, Flame Retardant Epoxy Fiberglass Prepreg	High toughness, flame retardant laminates, ducting, honeycomb panels, and foam panels	Woven Prepreg, solution coated	Off-white on white	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-3170	Cyanate Ester Fiberglass Prepreg	High service temperature laminates with low dielectric constant & low dissipation factor	Woven Prepreg (1 or 2-side coated)	Clear on white	260°F (127°C)	500°F (260°C)	With full post cure, it's capable of excursions to 600°F (316°C)
AX-3180	Low OSU / FST Epoxy Fiberglass Prepreg	Aircraft interior laminates & panels, A/C ducting	Woven Prepreg (1 or 2-side coated)	Off-White on white	250°F (121°C)	250°F (121°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i): & FST / OSU Snap Cure (SC) available.
AX-3201XL	Toughened Epoxy Fiberglass Laminating Prepreg Extra-long Outlife	High strength laminates requiring good structural properties and high clarity	Woven Prepreg (1 or 2-side coated)	Clear on white	Variable	250°F (121°C)	Flame Retardant (XL/FR) variant available.
AX-3206	Toughened Epoxy Fiberglass Laminating Prepreg	High toughness laminates for prosthetics and race car industry	Woven Prepreg (1 or 2-side coated)	White on white	Variable	250°F (121°C)	More toughened than AX-3201 series.
AX-3208FR/LT	Low Temperature Cure Flame Retardant Fiberglass Prepreg	Aircraft interior rework/repairs	Woven Prepreg (1 or 2-side coated)	Cream on white	160°F (71°C)	190°F (88°C)	Variable cure Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-3210	Vinyl Ester Fiberglass Prepreg	General purpose laminating with excellent strength and resistance to common industrial fluids	Woven Prepreg (1 or 2-side coated)	Off-white on white	275°F (135°C)	300°F (149°C)	Long Out life
AX-3230	Polyester Fiberglass Prepreg	General purpose laminating with excellent strength and flammability resistance.	Woven Prepreg (1 or 2-side coated)	Off-white on white	275°F (135°C)	300°F (149°C)	Long Out Life, Meets MIL-R-7575C and FAR25.853
AX-3430	Biobased Fiberglass Prepreg	Low FST for aircraft interior components	Woven Prepreg, solution coated	Brown on white	275°F (135°C)	250°F (121°C)	Biobased alternative to Phenolic Pre-pregs
AX-3500 / AX-3500LHR	Toughened Phenolic Fiberglass Prepreg	Honeycomb panels for aircraft interior components	Woven Prepreg, solution coated	Amber on white	275°F (135°C)	250°F (121°C)	Press grade and layup grade available.

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-3220	High Temperature Epoxy Fiberglass Prepreg	High temperature laminates and high temperature ducting	Woven Prepreg (1 or 2-side coated)	Clear on white	350°F (177°C)	400°F (204°C)	Post cure recommended for peak performance. FR grade available.
AX-3238	High Toughness Structural Epoxy Fiberglass Prepreg, designed specifically for VBO structural applications	Large, Thick, Structural composite components	Woven Prepreg (1 or 2-side coated)	Light amber on white	350°F (177°C)	350°F (177°C)	Extra-Long outlife, VBO capable, excellent mechanical properties.
AX-3280	BMI Fiberglass Prepreg	High temperature laminating and bonding applications	Woven Prepreg (1 or 2-side coated)	amber on white	350°F (177°C)	400°F (204°C)	With full post cure, it's capable of excursions to 450°F (232°C)
AX-3300	High Temperature Phenolic Laminating Fiberglass Prepreg	Ballistic panels, high temperature laminates	Woven Prepreg, solution coated	Amber on white	350°F (177°C)	500°F (260°C)	Resin meets MIL-R-9299C
AX-3605	Modified Silica S-glass Prepreg	High service temp laminates for insulation & aircraft structures, Thermal protection for aircraft and batteries	Woven Prepreg, solution coated	White on white	350°F (177°C)	950°F (510°C)	Free standing post cure at desired service temperature recommended.
AX-3611	Condensation Polyimide Fiberglass Prepreg	High temp laminating applications including insulated panels	Woven Prepreg, solution coated	Amber on white	350°F (177°C)	640°F (338°C)	

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-4110	Toughened, Flame Retardant Epoxy Aramid Prepreg	Flame retardant laminates, honeycomb panels, and foam panels	Woven Prepreg (1 or 2-side coated)	Off-white on yellow	250°F (121°C)	180°F (82°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-4112T	High Performance, Toughened Epoxy Aramid Prepreg	High toughness, FR laminates, ducting, honeycomb panels, and foam panels	Woven Prepreg, solution coated	Off-white on yellow	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-4151	Modified PVB Phenolic Aramid Prepreg	High strength and impact-resistant bonding and laminating typically for ballistic applications	Woven Prepreg (1 or 2-side coated)	Off-white on yellow	275°F (135°C)	180°F (82°C)	Resin meets MIL-DTL-62474F
AX-4180	Low OSU / FST Epoxy Aramid Prepreg	Aircraft interior laminates & panels, A/C ducting	Woven Prepreg (1 or 2-side coated)	Off-White on yellow	250°F (121°C)	250°F (121°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i): & FST / OSU requirements
AX-4201XL	Toughened Epoxy Aramid Laminating Prepreg Extra-long Outlife	High strength laminates requiring good structural properties and high clarity	Woven Prepreg (1 or 2-side coated)	Clear on yellow	Variable	250°F (121°C)	Flame Retardant (XL/FR) variant available
AX-4220	High Temperature Epoxy Laminating Aramid Prepreg	High temperature laminates and high temperature ducting	Woven Prepreg (1 or 2-side coated)	Clear on yellow	350°F (177°C)	400°F (204°C)	Post cure recommended for peak performance. FR grade available.
AX-4238	High Toughness Structural Epoxy Aramid Prepreg, designed specifically for VBO structural applications	Large, Thick, Structural Composite components	Woven Prepreg (1 or 2-side coated)	Cream on yellow	350°F (177°C)	350°F (177°C)	Extra-Long outlife, VBO capable, excellent mechanical properties.
AX-4300	High Temperature Phenolic Laminating Aramid Prepreg	Ballistic panels, high temperature laminates	Woven Prepreg, solution coated	Amber on yellow	300°F (149°C)	500°F (260°C)	Resin meets MIL-R-9299C
AX-4500/ AX-4500LHR	Toughened Phenolic Aramid Prepreg	Honeycomb panels for aircraft interior components	Woven Prepreg, solution coated	Amber on yellow	275°F (135°C)	250°F (121°C)	Press grade and layup grade available

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-5112T	High Toughness, Flame Retardant Epoxy Carbon Prepreg	High toughness, flame retardant laminates, ducting, & honeycomb panels	Woven Prepreg, solution coated	Off-white on black	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-5170	Cyanate Ester Carbon Prepreg	High service temperature laminates	Woven Prepreg (1 or 2-side coated)	Clear on black	260°F (127°C)	500°F (260°C)	With full post cure, it's capable of excursions to 600°F (316°C)
AX-5180	Low OSU / FST Epoxy Carbon Prepreg	Aircraft interior laminates & panels, A/C ducting	Woven Prepreg (1 or 2-side coated)	Off-White on black	250°F (121°C)	250°F (121°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i): & FST / OSU requirements. Color variations available.
AX-5201XL	Toughened Epoxy Carbon Laminating Prepreg Extra-long Outlife	High strength laminates requiring good structural properties and high clarity	Woven Prepreg (1 or 2-side coated)	Clear or black on black	Variable	250°F (121°C)	Flame Retardant (XL/FR) variant available
AX-5202HT	High Temp Cosmetic Epoxy Carbon Prepreg	Parts requiring high thermal resistance	Woven Prepreg (1 or 2-side coated)	Clear on black	Variable	425°F (218°C)	Used extensively in auto sport applications
AX-5205	Epoxy Carbon Prepreg for High Quality Surface	Low temp or standard temp option for laminates requiring a high quality surface and cosmetic appearance	Woven Prepreg (1 or 2-side coated)	Clear or black on black	Variable	250°F (121°C)	Low temp cure grade available (S)
AX-5206	Toughened Epoxy Carbon Laminating Prepreg	High toughness laminates for prosthetics and race car industry	Woven Prepreg (1 or 2-side coated)	White or black on black	Variable	250°F (121°C)	More toughened than AX-5201 series
AX-5500 / AX-5500LHR	Toughened Phenolic Carbon Prepreg	Press cured aircraft interior sandwich panels	Woven Prepreg, solution coated	Amber on black	275°F (135°C)	250°F (121°C)	Press grade and layup grade available.

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Product	Description	Applications	Form	Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-5220	High Temperature Epoxy Laminating Carbon Prepreg	High temperature laminates, high temperature ducting	Woven Prepreg (1 or 2-side coated)	Clear on Black	350°F (177°C)	400°F (204°C)	Post cure recommended for peak performance. FR grade available.
AX-5238	High Toughness Structural Epoxy Carbon Prepreg, designed specifically for VBO structural applications	Large, Thick, Structural composite components	Woven Prepreg (1 or 2-side coated)	Cream on Black	350°F (177°C)	350°F (177°C)	Extra-Long outlife, VBO capable, excellent mechanical properties.
AX-5280	BMI Woven Carbon Prepreg	High temperature laminating and bonding applications	Woven Prepreg (1 or 2-side coated)	Light Amber on Black	350°F (177°C)	400°F (204°C)	With full post cure, it's capable of excursions to 450°F (232°C)
AX-5300	High Temperature Phenolic Carbon Prepreg	Carbon-carbon composites, high temperature laminates	Woven Prepreg	Amber on Black	350°F (177°C)	500°F (260°C)	Resin meets Mil-R-9299C
AX-5605	Modified Silica Carbon Prepreg	High service temp laminates for insulation & aircraft structures, Thermal protection for aircraft and batteries and racing	Woven Prepreg	White or black on Black	350°F (177°C)	900°F (482°C)	Free standing post cure at desired service temperature recommended.
AX-5611	Condensation Polyimide Carbon Prepreg	High temp laminating applications including insulated panels	Woven Prepreg	Amber on Black	350°F (177°C)	640°F (338°C)	
AX-5650	Carbon Reinforced Silicon Carbide Prepreg	High service temperature components for aerospace & defense applications	Woven Prepreg	Dark Grey on Black	Inquire for Processing Information	Inquire for Processing Information	Liquid Phase Sintering Technology based on NITE

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Product	Description	Applications	Form	Matrix Color	Nominal Cure Temp, °F (°C)	Max. Dry Operating Temp, °F (°C)	Comments
AX-6111	General Purpose Flame Retardant Epoxy Unidirectional Prepreg	Aircraft flooring, high-rise flooring, cargo liners, high impact surfaces, UAVs, sporting goods	UD Prepreg (1 or 2-side coated)	Off white	250°F (121°C)	200°F (93°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i):
AX-6170	Cyanate Ester Carbon Prepreg	High service temperature laminates	UD Prepreg (1 or 2-side coated)	Clear	260°F (127°C)	500°F (260°C)	With full post cure, it's capable of excursions to 600°F (316°C)
AX-6180	Low FST/OSU Epoxy Unidirectional Prepreg	Aircraft interior components, seatbacks, doublers	UD Prepreg (1 or 2-side coated)	White	250°F (121°C)	250°F (121°C)	Meets FAR 25.853 (a) Appendix F, Part I, (a), 1,(i): & FST / OSU requirements
AX-6201XL	Toughened Epoxy Unidirectional Prepreg Extra-long Outlife	High strength laminates requiring good structural properties and/or high clarity, marine applications	UD Prepreg (1 or 2-side coated)	Clear or light Black	Variable	250°F (121°C)	Flame Retardant (XL/FR) variant available.
AX-6206	Toughened Epoxy Carbon Laminating Prepreg	High toughness laminates for prosthetics and race car industry	UD Prepreg (1 or 2-side coated)	White or Black	Variable	250°F (121°C)	More toughened than AX-5201 series
AX-6220	High Temperature Epoxy Laminating Carbon Prepreg	High temperature laminates and high temperature ducting	UD Prepreg (1 or 2-side coated)	Clear	350°F (177°C)	400°F (204°C)	Post cure recommended for peak performance. FR grade available.
AX-6238	Structural Epoxy Unidirectional Prepreg, designed specifically for VBO structural applications	Structural composite components	UD Prepreg (1 or 2-side coated)	Cream	300°F (149°C)	350°F (177°C)	Extra-Long outlife, VBO capable, excellent mechanical properties.
AX-6280	BMI Carbon Unidirectional Prepreg	High temperature laminating and bonding applications	UD Prepreg (1 or 2-side coated)	Amber	350°F (177°C)	400°F (204°C)	With full post cure, it's capable of excursions to 450°F (232°C)

Note: All unidirectional prepregs are available in E-glass (E), S2 Glass (S), Carbon (C), Aramid (A)

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AX-3260 AX-3260EL	Epoxy Fiberglass Tooling Prepreg	Low temperature cure, high temperature service tooling	Woven Prepreg	Light Amber on White	125°F (52°C) , Variable	375°F (191°C)	Low temperature initial cure, then free-standing postcure to achieve Tg
AX-5260 AX-5260EL	Epoxy Carbon Tooling Prepreg	Low temperature cure, high temperature service tooling	Woven Prepreg	Light Amber on black	125°F (52°C) , Variable	375°F (191°C)	Low temperature initial cure, then free-standing postcure to achieve Tg
AX-3281 AX -3281VBO	BMI Fiberglass Tooling Prepreg	High temp tooling applications	Woven Prepreg	Amber on white	350°F (177°C)	400°F (204°C)	Excellent strength, dimensional stability and thermocycling stability
AX-5281 AX-5281VBO	BMI Carbon Tooling Prepreg	High temp tooling applications	Woven Prepreg	Amber on Black	350°F (177°C)	400°F (204°C)	Excellent strength, dimensional stability and thermocycling stability

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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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