

Void fillers, adhesives and composite solutions

# Aerospace materials for production, assembly and maintenance



## Making a material difference in the aerospace industry



**Araldite®**  
**Epibond®**  
**Epocast®**  
**Eposert™**  
**Uralane®**

Huntsman Advanced Materials is a leading global supplier of advanced, high-performance materials for the fabrication, assembly and repair of interior and exterior aircraft components. Prominent aerospace companies look to us for innovations in adhesives, laminating systems and void fillers.

Production process improvements, innovative designs, weight savings, compliance to stringent aerospace standards and low maintenance costs have become vital to success and can be achieved with our products.

Adhesives, composites and void fillers  
serving the global aerospace industry  
for more than 70 years



### Reduced cycle time

Our solutions help unlock production bottlenecks by improving productivity without compromising technical performance.



### Lightweight design

Our materials meet stringent mechanical requirements while offering a variety of compressive strength and density options, allowing for the lightest weight selection.



### Lower manufacturing costs

By reducing the number of joining and finishing operations, the overall production cycle can be reduced. This saves on labor costs and results in improved productivity.



### Long term performance

Our adhesives offer even distribution of load over a bonded area, reducing the number of drilled holes and limiting points of entry for corrosion and stress.



### Flame retardancy

Many of our products are flame retardant and exhibit the low flame, smoke and toxicity characteristics required to comply with established regulations governing materials used in large civil and commercial aircraft.

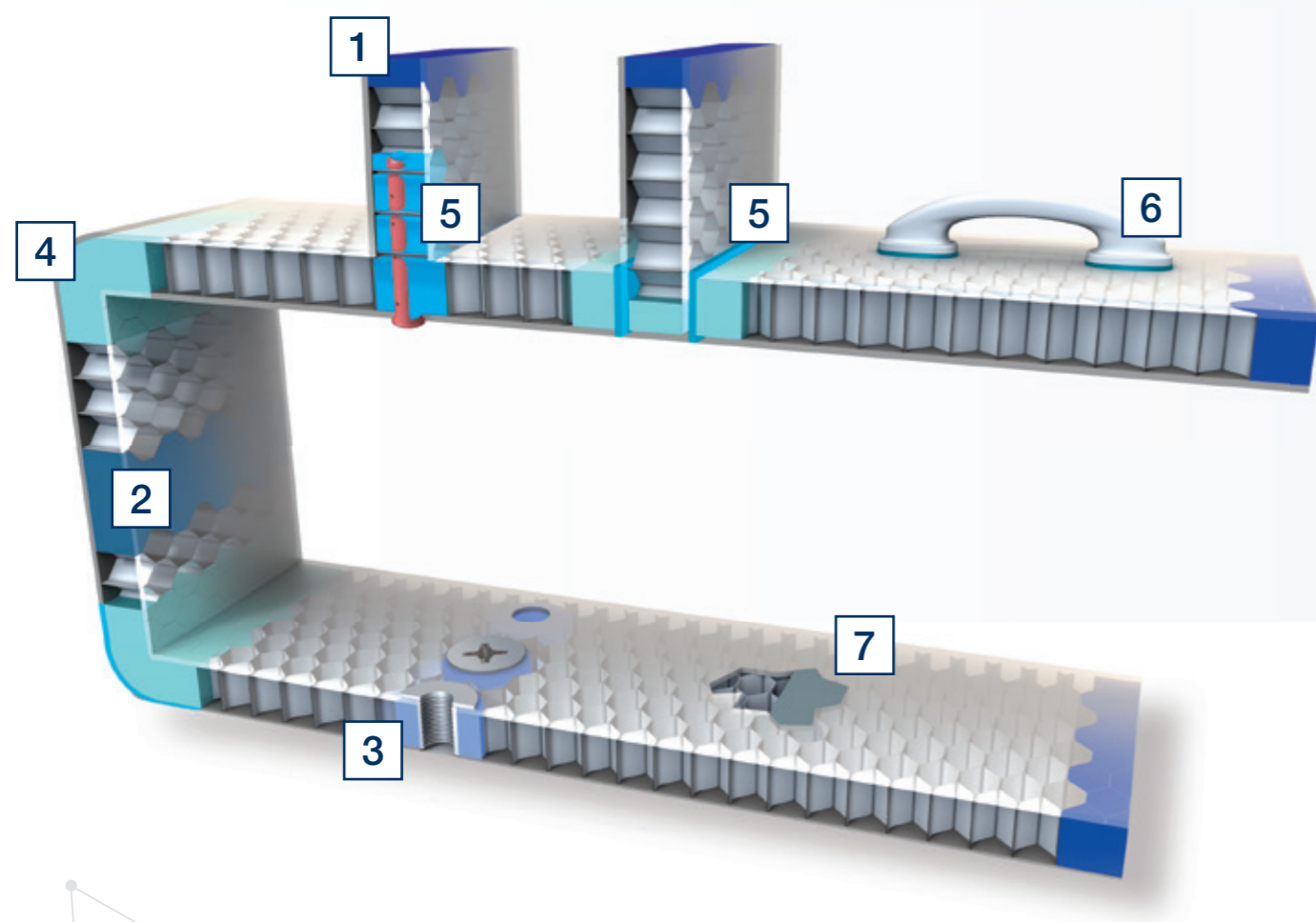


### Sustainability

Our products are designed to comply with regional environmental regulations. Our global manufacturing footprint, local technical support and commercial teams ensure both close proximity with our customers and security of supply.



# Our range of advanced technologies optimize production, assembly and repair operations



Void fillers  
for core reinforcement  
and insert potting

- 1. Edge fill and close out
- 2. Panel reinforcement
- 3. Insert potting
- 4. Panel forming

Adhesives  
for joining  
and bonding

- 5. Panel pin bonding
- 6. Component bonding

Laminating resins  
for composite  
production and repair

- 7. Manufacturing and repair

Huntsman's versatile adhesives, composites, edge and void fillers are used by aircraft manufacturers who serve commercial airlines, general aviation and the defense industry throughout the world. Our products are used in a wide range of applications ranging from honeycomb reinforcement, edge sealing, insert potting or bonding, panel forming, component bonding and laminating.

In our efforts to develop innovative solutions for the aerospace market, we strive to meet the high product standards set forth by the industry and federal regulations that govern the performance properties of materials used in aircraft: strength, weight, toughness, flexibility, low coefficient of thermal expansion, high resistance to corrosion and fatigue, flame retardancy, halogen-free formulations, noise and vibrational damping.



## We help you select the right product for your needs

Our global aerospace brochure guides you through the main considerations that must be taken into account when selecting the right product for a specific production, assembly or repair operation. Use the enclosed selector guides to determine which products are best suited for your particular applications. For additional information, please contact your sales or technical representative.

### Need technical help or a distributor?

Submit your questions to our technical team at:

[www.aralditeadhesives.com](http://www.aralditeadhesives.com)



# Araldite® and Epocast® void fillers enable weight savings and high strength

## Void fillers for core reinforcement and insert potting

Araldite® and Epocast® epoxy void fillers, and Eposert™ pre-cured inserts, provide solutions for edge sealing, insert potting, and for honeycomb assembly, reinforcement and repair. Our portfolio is qualified to Airbus, Boeing, Goodrich, Gulfstream, Bombardier, Bell, Rohr, Rolls Royce, and other key OEM specifications, and are listed as approved repair materials in Structural Repair Manuals and Service Bulletins. From nacelles, engines, rudders and radomes, to overhead bins, cabin doors, interior panels and cabin flooring, our products are found in a wide variety of parts today.

Find our product offerings in the enclosed selector guide →



Overhead bins

Sidewall panels

Cabin flooring

### Reinforcement

Reinforcement of honeycomb panels is needed to withstand high loading. Huntsman Epocast® products offer flexibility for interior construction and meet the most stringent requirements of numerous aircraft specifications. Huntsman also offers a unique range of Eposert™ pre-cured inserts that can be installed rapidly in a honeycomb core before fasteners are added. These inserts are well suited to reinforce composite floor panels, galley walls, bulkheads and lavatory cabinets.

### Edge sealing

Aircraft manufacturers and repair stations use these materials to build and re-furbish cabin components such as overhead baggage bins, floor panels and lavatory cabinets as well as flight control surfaces, nacelles and landing gear doors. Huntsman void fillers are produced in a range of densities to meet a variety of performance and handling requirements. Many of our edge sealing materials are self-extinguishing and feature easy to apply viscosities, as well as sag-resistance for use on vertical surfaces.

### Insert potting

Medium and low-density grades of Araldite® and Epocast® epoxy void fillers and Uralane® polyurethane adhesives provide dependable reinforcement for honeycomb composite panels before inserting fasteners. Typical applications include composite floor panels, galley walls, bulkheads and lavatory cabinets.

### Panel forming

For ditch/pot/fold applications, we offer a range of products with fast to moderate handling strength times, optimum rheological properties to control product flow and high mechanical and impact performance.



**Araldite<sup>®</sup>, Epibond<sup>®</sup> and Uralane<sup>®</sup> adhesives provide strength and durability in bonding**

## Adhesives for joining and bonding

Our high-performance Araldite<sup>®</sup>, Epibond<sup>®</sup> and Uralane<sup>®</sup> adhesives provide superior joining and bonding solutions for plastics, metals, composite materials and other substrates. Huntsman adhesives offer manufacturing process improvements and reductions in weight over other fastening methods. Additionally, manufacturers can select adhesives resistant to fatigue, chemicals and temperatures, with mechanical properties that vary from rigid to flexible and offer long-term durability. Our products are specified in numerous applications ranging from interior parts such as seats, lavatories, overhead bins, galleys and monuments to exterior parts such as nacelles, landing gear doors and control surfaces.

Find our product offerings  
in the enclosed selector guide →

Ceiling panels

Lavatories

Seats

### Epoxy adhesives

- > Excellent adhesion to metals and thermoset composites
- > High strength and high stiffness
- > High fatigue resistance
- > High temperature resistance
- > Excellent chemical resistance and long-term durability

### Polyurethane adhesives (PU)

- > Excellent adhesion to most composite materials and plastics
- > Good adhesion to metals
- > Mechanical properties from rigid to flexible
- > High fatigue resistance
- > Good long-term durability

### Methyl methacrylate adhesives (MMA)

- > Excellent adhesion to metals, thermoset composites and most thermoplastics
- > Good adhesion with minimum surface preparation
- > Tolerant to mix-ratio variations
- > Wide spectrum of available reactivity
- > Optimum ratio open-time / cure time
- > Mechanical properties from rigid to flexible
- > Good long-term durability



# Araldite® and Epocast® laminating resins provide high mechanical performance for manufacturing, maintenance and repair (MRO)

## Laminating resins for composite production and repair

Huntsman epoxy laminating resin systems have been an industry standard for fabricating composite aircraft parts for many years. These products are used for the manufacturing and repair of composite radomes, fairings, flight control surfaces, cargo and cabin panels, and more. Huntsman resins combine ease of handling with excellent mechanical strength to perform in the most demanding applications. Many of Huntsman's laminating resins are flame retardant and can be used to wet out fiberglass, carbon fiber and honeycomb core reinforcements.

Find our product offerings in the enclosed selector guide →



Nacelles

Fuselage

Doors

### Composite solutions for production

- > Designed for customer-specific applications
- > Compatible with state-of-the-art manufacturing processes
- > Contact us for more information

### Structural FST solutions for interiors

- > Meets Flame, Smoke and Toxicity (FST) according to FAR 25.853 / ABD 0031
- > Halogen free
- > Unfilled
- > Good mechanical properties
- > Designed for a variety of processes including RTM and infusion

### Laminating resins for repair

- > Designed for composite repair
- > OEM qualified
- > Good fiber wetting
- > Low temperature vacuum-bag curing capabilities
- > Good hot-wet strength
- > Good resistance to aircraft fluids
- > Good mechanical properties



# Material specifications

The majority of our products are qualified to aircraft manufacturers' specifications.

They are qualified across platforms including fixed wing, rotorcraft and spacecraft, and across the aircraft life cycle from new design to MRO.

We offer high-performance products qualified to material specifications and continuously strive to increase these approvals through on-going innovation.

## Aerospace Composite Technologies

M1368 - 001	Araldite® 2011
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## Airbus

I+D-N-200 - Z-18.115/2	Epocast® 89537 A/B
AIMS 10-04-001	Uralane® 5774 A/C
AIMS 10-04-006	Araldite® 1570 FST A/B
AIMS 10-03-001	Araldite® 1644 A/B
AIMS 10-04-020	Araldite® 2011
ABR 2-0179	Araldite® 2011
ABP 5-1158	Araldite® 2011
DAN 1284-01	Araldite® 2011
ASNA 4049	Araldite® 2011
ABP 5-1158	Araldite® 2012
ABR 2-0186	Araldite® 2012
ABP 5-1158	Araldite® 2013
ABR 2-0181	Araldite® 2015
ABP 5-1158	Araldite® 2015
ASNA 4072	Araldite® 252-1
AIMS 10-03-005	Araldite® 252-1
ASNA 4125	Araldite® 420 A/B
I+D-N-200 - Z15.213/1	Araldite® 420 A/B
AIMS 10-04-024	Araldite® 501 A/B
ASNA 4047	Araldite® 501 A/B
ABP 5-1158	Araldite® AV 121N-1 / HY 951
ABR 2-0183	Araldite® AV 121N-1 / HY 951
DAN 1187-01	Araldite® AW 134 / HY 994
DAN 1199-01	Araldite® AW 134 / HY 994
ABP 5-1158	Araldite® AY 103-1 / HY 951
ABR 2-0184	Araldite® AY 103-1 / HY 951
ABP 5-1158	Araldite® AY 103-1/ HY 991
ABR 2- 0185	Araldite® AY 103-1/ HY 991
AIMS 08-01-001	Araldite® LY 5052 / Aradur® 5052
AIMS 08-02-001	Araldite® LY 5052 / Aradur® 5052
AIMS 05-04-103	Araldite® LY 5052 / Aradur® 5052

## Airbus / Coasa

RP1021209	Epocast® 1627-2
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## Airbus Helicopters

ECS 0049	Epocast® 52 A/B
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## Alenia Aermacchi

MDL08055	Epocast® 1617 A/B
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MDL8027, Type 7	CG 1305 R/H
MDL8027, Type 7	Epocast® 89537 A/B

## Allied Signal

PCS 5606	Epocast® 1652 A/B
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## Army

13312291	Uralane® 5774 A/C
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## Astrium

MPS0059	Araldite® 403 A/B
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## B/E Aerospace

LCMS 202, Type 1	Uralane® 5774 A/C
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## Bell Helicopter

299-947-097, Type 5	Epocast® 1626 A/B
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## Boeing

BMS 5-28, Type 7, Class 1	CG 1305 A/B
HMS 16-1068, Class 8B	Epibond® 1217 A/B
BMS 5-126, Type 2, Class 1, Gr B	Epibond® 1534 A/B
BMS 5-126, Type 3, Class 1, Gr B	Epibond® 1536 A/B
BMS 5-126, Type 6, Class 1, Gr B	Epibond® 1539 A/B
BMS 5-25, Type 2, Gr 1	Epibond® 1539 A/B-10
BMS 5-126, Type 4, Class 1, Gr B	Epibond® 1544 A/C
BMS 5-126, Type 4, Class 4, Gr B	Epibond® 1544-1 A-82/D
BMS 5-126, Type 4, Class 4, Gr B	Epibond® 1544 A-71/D
D800-10411-1, PDD 6-1	Epibond® 1565 A/B
BMS 5-107, Class 1	Epibond® 420 A/B
BMS 5-123, Type 1, Class 3	Epibond® 8543 C/B
BMS 5-28, Type 4	Epocast® 1488 A/B
BMS 5-28, Type 3	Epocast® 1511 A/B
BMS 5-28, Type 10	Epocast® 1610-A1
BMS 5-28, Type 14, Class 1	Epocast® 1614-A1
BMS 5-28, Type 14, Class 2	Epocast® 1614-A1
MMS 347, Type 2, Rev G, ADD 1	Epocast® 1614-A1
901-330-140-107	Epocast® 1614-A1-11/CSI
Boeing / MESA HS5933 (A) 150-100	Epocast® 1614-A1-64/CSI
Boeing / MESA HS5933 (A) 150-35	Epocast® 1614-A1-65/CSI
Boeing / MESA HS5933 (A) 150-25	Epocast® 1614-A1-66/CSI
Boeing / MESA HS5933 (A) 100-25	Epocast® 1614-A1-67/CSI
Boeing / MESA HS5933 (A) 150- 50	Epocast® 1614-A1-68
BMS 5-28, Type 15	Epocast® 1615 A/B

BMS 5-28, Type 17	Epocast® 1617 A/B
BMS 5-28, Type 18, Class 1	Epocast® 1618 D/B
BMS 5-28, Type 19	Epocast® 1619 A/B
BMS 5-28, Type 25	Epocast® 1625 A1/B1
BMS 5-28, Type 26, Class 1	Epocast® 1626 A/B
BMS 5-28, Type 26, Class 2	Epocast® 1626 C1/D2
BMS 5-28, Type 27	Epocast® 1627-2
BMS 5-28, Type 28	Epocast® 1628 A/B
BMS 5-28, Type 9	Epocast® 1629 A/B
BMS 5-28, Type 18, Class 2	Epocast® 1633 A/B
BMS 5-28, Type 18, Class 2	Epocast® 1633-A40/B
BMS 5-28, Type 18, Class 2	Epocast® 1633-A41/B
BMS 5-28, Type 18, Class 2	Epocast® 1633-A50/B
BMS 5-28, Type 31	Epocast® 1635 A/B
BMS 5-28, Type 6	Epocast® 1636 A/B
BMS 5-28, Type 18	Epocast® 1648 A/B
BMS 5-28, Type 1	Epocast® 167 A/B
BMS 8-201, Type 3	Epocast® 50 A1/9816
BMS 8-201, Type 4	Epocast® 50 A1/946
BMS 5-28, Type 7, Class 2	Epocast® 89537 A/B
BMS 5-28, Type 12, Class 1	Epocast® 938-A2
BMS 5-28, Type 13	Epocast® 938-A2
BMS 5-28, Type 12, Class 2	Epocast® 938-A2
BMS 5-105, Type 3	Uralane® 5759 G/D
BMS 5-105, Type 5	Uralane® 5774 A/C
BMS 5-105, Type 6	Uralane® 5779 A/B
BMS 5-105, Type 6	Uralane® 5779 A-80/B
BMS 5-107, Class 1	Araldite® 420 A/B

## Bombardier

SMS 41, Type 3	Epocast® 1617 A/B
BOMS 820-001 TY 2	Epibond® 8000 FR A/B

## Cessna

CMNP085	Epocast® 1652 A/B
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## Cirrus

E00000061, Type 1, Form B	Epibond® 100 A/C
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## Douglas

HMS 16-1115 Type 3, SUPP 1	Araldite® 501 A/B
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## Dassault Aviation

DGQT 1.7.0.22	Araldite® 2011
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Embraer	
Embraer/Kawasaki 190-38790-903	<b>Epocast® 1614-A1-61/CSI</b>
MEP 10-051, Type 2, Class 1	<b>Epocast® 1652 A/B</b>
MEP 22-011	<b>Epocast® 50 A1/946</b>
MEP 22-011	<b>Epocast® 50 A1/9816</b>
MEP 09-022	<b>Araldite® AV 138M-1 / HV 998</b>

## FACC

FMS 4140	<b>Araldite® 2013</b>
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## Fairchild Dornier

DON 816	<b>Araldite® 2026</b>
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## Fokker

TH5.558/1	<b>Araldite® 2011</b>
TH5.558/6	<b>Araldite® 2011</b>
TH5.937	<b>Araldite® 2013-1</b>
TH5.558/1	<b>Araldite® AW 2101 / HW 2951</b>

## Gamesa Aeronautica

GMS 124047	<b>Epocast® 1617 A/B</b>
GMS 124050	<b>Epibond® 1544 A-82/D</b>

## GE

EMPIS A15 B205 (GE A15B205D1)	<b>Epocast® 1614-A2</b>
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## Goodrich

RMS 027, type XV, SCO 036	<b>Epocast® 927-1 GB</b>
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## Gulfstream

GMS 4005, Type 1, Class C, FM 2	<b>Epocast® 1636 A/B</b>
GMS 4005, Type 1, Class B, FM 1	<b>Epocast® 1652 A/B</b>
GAA 100BN1	<b>Uralane® 5774 A/C</b>

## Hamilton-Sundstrand

CM34.40-38-01	<b>Epibond® 1210 A/B</b>
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## Hawker de Havilland

EN-106G309	<b>Epocast® 1614-A1</b>
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## Heath Tecna

HMS A5-001, Type 2, Class 3	<b>Epibond® 1559-1 A/B</b>
HMS A4-001, Type 1, Class 2	<b>Uralane® 5774 A/C</b>

HMS A4-001, Type 1, Class 3	<b>Uralane® 5779 A/B</b>
HMS A5-001 Type 1 Class 1	<b>Epibond® 8000 FR A/B</b>

## Hexcel

RMS 8955, C	<b>Araldite® 403 A/B</b>
RMS 8957, E	<b>Araldite® 420 A/B</b>

## Hurel-Hispano

HS/DFO-010	<b>Epocast® 1652 A/B</b>
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## Kaman Composite

CMS-007-4	<b>Epocast® 1617 A/B</b>
CMS-007-3	<b>Epocast® 1636 A/B</b>

## Kearfott

Y105A053-101	<b>Epibond® 1217 A/B</b>
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## Lockheed Martin

LAC 30-4639-0100	<b>Epibond® 1210 A/9615 A</b>
LAC 30-4639-0300	<b>Epibond® 1210 A/9615-10</b>
LAC 30-4639-0200	<b>Epibond® 1210 A/9861</b>
STM M1067, Type 1	<b>Epocast® 1614-A1</b>
STM M1067, Type 2	<b>Epocast® 1614-A1</b>
STM M1069	<b>Epocast® 89537 A/B</b>

## Loral

23-P12027-0003	<b>Epibond® 1210 A/9861</b>
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## MBDA

PS 1728	<b>Araldite® 2011</b>
PS 1729	<b>Araldite® AW 106</b>
PS 1690	<b>Araldite® AY 105-1</b>
PS 1691	<b>Hardener HY 953 F</b>
PS 1727	<b>Hardener HV 953 U</b>

## MD Helicopters

HMS 16-1115	<b>Araldite® 501 A/B</b>
MDM 16-1068, Class 8B	<b>Epibond® 1217 A/B</b>

## Meggitt Composites

MS 0013	<b>Araldite® 420 A/B</b>
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M1074, Type 2	<b>Epocast® 1629 A/B</b>
M1074, Type 1	<b>Epocast® 167 A/B</b>
M1129, Class A	<b>Epocast® 169 A-1/9615</b>

## Navy

5675396	<b>Uralane® 5776 A/B</b>
NWC 78A151	<b>Uralane® 5774 A/C</b>
WS 9087	<b>Uralane® 5776 A/B</b>

## Nordam

NTR-MS 1301, Type 2, Class 4, Gr F	<b>Epocast® 1614-A1</b>
NTR-MS 1301, Type 2, Class 4, Gr F	<b>Epocast® 1614-A2</b>

## Northrop Grumman

ACS-MRS-5601	<b>Epocast® 1614-A2</b>
GM 4006, Type 1, Class B, FM 1	<b>Epocast® 1652 A/B</b>
GM 4006, Type 1, Class B, FM 1	<b>Epocast® 1656 A/B</b>
GR 110PF1	<b>Epocast® 1670 A/B</b>
GM 4006, Type 3, Class B, FM1	<b>Epocast® 938-A2</b>
GA 100BN	<b>Uralane® 5774 A/C</b>

## Piaggio Aerospace

NP190112, Type 17	<b>Epocast® 1617 A/B</b>
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## Pratt & Whitney

TS10430	<b>Epibond® 1534 A/B</b>
PWA 452	<b>Epocast® 1614-A1</b>
CPW 505	<b>Epocast® 1656 A/B</b>
PWA 36757	<b>Epocast® 1661</b>

## ROHR

RMS 027, Type 5, Class 3, SCO 036	<b>Epocast® 1617 A/B</b>
RMS 027, Type 13, SCO 036	<b>Epocast® 938-A2</b>

## Rolls Royce

MSRR 9332	<b>Araldite® AV 138M-1 / HV 998-1</b>
MSRR 1076	<b>Araldite® 1641 A/B</b>

## Roxel

MTA 00137	<b>Araldite® 2011</b>
204 251-PS/1/E000	<b>XD 4236-3</b>

## SAE Aerospace (CACRC)

AMS 2980	<b>Epocast® 52 A/B</b>
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## Sikorsky

SS-9587, (-008A) Type 3, Class 1	<b>Epocast® 1614-A1</b>
SS-9587, (-003A) Type 2, Class 1	<b>Epocast® 1652 A/B</b>
SS-9587, (-002A & -005A ) Type 1	<b>Epocast® 169 A-1/9615</b>
SS-9440, (-001A)	<b>Epocast® 169 A-1/946</b>

## Spectrolab

44418	<b>Epibond® 1210 A/9861</b>
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## Spirit Aero System

SMS-116201, Type 1	<b>CG 1305 A/B</b>
SMS-116201, Type 3	<b>Epocast® 1626 C1/D2</b>
SMS-116201, Type 2	<b>Epocast® 938-A2</b>

## Sundstrand

CM 34.40-38-01	<b>Epibond® 1210 A/B</b>
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## Triumph Composite

TCE-M-20710-4, Type 1	<b>Epibond® 420 A/B</b>
TCE-M-20710-6, Type 1	<b>Epocast® 1628 A/B</b>

## United Launch Alliance (ULA)

STM M1067, Type 1 & type 2	<b>Epocast® 1614-A1</b>
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## Vought

207-8-417	<b>Epocast® 1614-A1</b>
901-031-442-111U	<b>Epocast® 1614-A1-59/CSI</b>
901-031-442-113U	<b>Epocast® 1614-A1-62/CSI</b>
901-031-442-115U	<b>Epocast® 1614-A1-63/CSI</b>
901-031-442-101U	<b>Epocast® 1614-A1-7/CSI</b>
901-031-442-103U	<b>Epocast® 1614-A1-8/CSI</b>
901-031-442-105U	<b>Epocast® 1614-A1-9/CSI</b>
VM 4006, Type 1, Class D, FM1	<b>Epocast® 1656 A/B</b>
VM 4006, Type 3, Class B, FM 1	<b>Epocast® 938-A2</b>

## Westland Helicopters

WHPS 012	<b>Araldite® AY 103-1 / HY 951</b>
WHPS 418	<b>Araldite® AY 105-1 / HY 953F</b>



# We value your challenge



## With innovation

Every day, all over the world, our scientists engage in intensive research and development focusing on one goal: to deliver innovative solutions by working hand-in-hand with our business partners. Together, through a continual exchange of ideas, supported by an experienced team of sales and technical specialists, we strive to deliver innovative and regulatory compliant solutions.

We track both new market expectations and changing regulations. Protection of the environment, as well as health and safety are paramount concerns, playing an integral part in our development projects.

## With customer understanding

We market a unique product portfolio and a broad range of forward-looking solutions for our customers. Customers and partners benefit from an advanced level of service in:

- > product selection and quality
- > product trials in-house and with customers
- > customer seminars and training
- > technical support

Partnership with our customers is more than simply 'putting them first'. It requires long-term commitment to forging close relationships that create synergies of knowledge, security and adaptability to create a successful, shared future.

## With care

Sustainability is a fundamental part of our corporate and business strategy. We see a better world in which our innovations help reduce consumption of natural resources and improve the quality of life for people everywhere.

We are identifying long-term trends that affect our markets, and are looking to see how our products and applications can play a part in providing solutions to the challenges those markets face.

Huntsman provides unique, high-quality and reliable technologies to ensure our customers' success





**Araldite®**  
**Epibond®**  
**Epocast®**  
**Eposert™**  
**Uralane®**



## Huntsman Advanced Materials

Our Advanced Materials division is a leading global chemical solutions provider with a long heritage of pioneering technologically advanced epoxy, acrylic, phenolic and polyurethane-based polymer products.

Our capabilities in high-performance adhesives and composites, delivered by more than 1600 associates, serve over 2000 global customers with innovative, tailor-made solutions and more than 1500 products which address global engineering challenges.

## We operate synthesis, formulating and production facilities around the world



## Distributed by



## Find the right product to fulfill your needs



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# HUNTSMAN

Enriching lives through innovation

### For more information

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