Advanced Materials

HUNTSMAN

Enriching lives through innovation

Void fillers, adhesives and composite solutions

Aerospace materials for production, assembly and maintenance

Chemical™ Concepts
Our expertise is your solution.
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410 Pike Road • Huntingdon Valley, PA 19006

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.

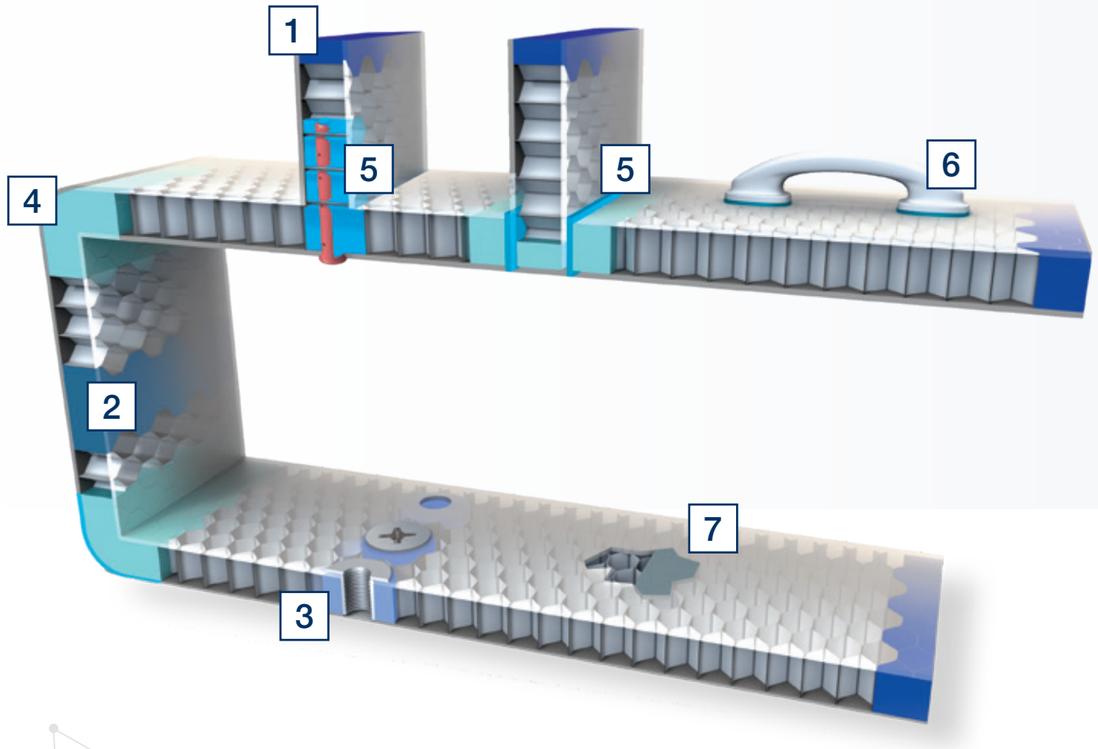
Flame retardancy

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.araldite adhesives.com

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 ➜

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

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.

Adhesives for joining and bonding

Our high-performance Araldite®, Epibond® and Uralane® 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 ➜

Araldite®, Epibond® and Uralane® adhesives provide strength and durability in bonding

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

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 ➜

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

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**

Airbus

ABP 5-1158	**Araldite® 2011**
	Araldite® 2012
	Araldite® 2013
	Araldite® 2015
	Araldite® AV 121N-1 / HY 951
	Araldite® AY 103-1 / HY 951
	Araldite® AY 103-1/ HY 991
ABR 2-0179	**Araldite® 2011**
ABR 2-0181	**Araldite® 2015**
ABR 2-0183	**Araldite® AV 121N-1 / HY 951**
ABR 2-0184	**Araldite® AY 103-1 / HY 951**
ABR 2-0185	**Araldite® AY 103-1/ HY 991**
ABR 2-0186	**Araldite® 2012**
AIMS 05-04-103	**Araldite® LY 5052 / Aradur® 5052**
AIMS 08-01-001	**Araldite® LY 5052 / Aradur® 5052**
AIMS 08-02-001	**Araldite® LY 5052 / Aradur® 5052**
AIMS 10-03-001	**Araldite® 1644 A/B**
AIMS 10-03-005	**Araldite® 252-1**
AIMS 10-04-001	**Uralane® 5774 A/C**
AIMS 10-04-006	**Araldite® 1570 FST A/B**
AIMS 10-04-020	**Araldite® 2011**
AIMS 10-04-024	**Araldite® 501 A/B**
ASNA 4047	**Araldite® 501 A/B**
ASNA 4049	**Araldite® 2011**
ASNA 4072	**Araldite® 252-1**
ASNA 4125	**Araldite® 420 A/B**
DAN 1187-01	**Araldite® AW 134 / HY 994**
DAN 1199-01	**Araldite® AW 134 / HY 994**
DAN 1284-01	**Araldite® 2011**
I+D-N-200 - Z15.213/1	**Araldite® 420 A/B**
I+D-N-200 - Z18.115/2	**Epocast® 89537 A/B**

Airbus / Coasa

RP1021209	**Epocast® 1627-2**

Airbus Helicopters

ECS 0049	**Epocast® 52 A/B**

Alenia Aermacchi

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

Allied Signal

PCS 5606	**Epocast® 1652 A/B**

Army

13312291	**Uralane® 5774 A/C**

Astrium

MPS0059	**Araldite® 403 A/B**

B/E Aerospace

LCMS 202, Type 1	**Uralane® 5774 A/C**

Bell Helicopter

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

Boeing

901-330-140-107	**Epocast® 1614-A1-11/CSI**
BMS 5-25, Type 2, Gr 1	**Epibond® 1539 A/B-10**
BMS 5-28, Type 1	**Epocast® 167 A/B**
BMS 5-28, Type 3	**Epocast® 1511 A/B**
BMS 5-28, Type 4	**Epocast® 1488 A/B**
BMS 5-28, Type 6	**Epocast® 1636 A/B**
BMS 5-28, Type 7, Class 1	**CG 1305 A/B**
BMS 5-28, Type 7, Class 2	**Epocast® 89537 A/B**
BMS 5-28, Type 9	**Epocast® 1629 A/B**
BMS 5-28, Type 10	**Epocast® 1610-A1**
BMS 5-28, Type 12, Class 1	**Epocast® 938-A2**
BMS 5-28, Type 12, Class 2	**Epocast® 938-A2**
BMS 5-28, Type 13	**Epocast® 938-A2**
BMS 5-28, Type 14, Class 1	**Epocast® 1614-A1**
BMS 5-28, Type 14, Class 2	**Epocast® 1614-A1**
BMS 5-28, Type 15	**Epocast® 1615 A/B**
BMS 5-28, Type 17	**Epocast® 1617 A/B**
BMS 5-28, Type 18	**Epocast® 1648 A/B**
BMS 5-28, Type 18, Class 1	**Epocast® 1618 D/B**
BMS 5-28, Type 18, Class 2	**Epocast® 1633 A/B**
	Epocast® 1633-A40/B
	Epocast® 1633-A41/B
	Epocast® 1633-A50/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 31	**Epocast® 1635 A/B**
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**
	Uralane® 5779 A-80/B
BMS 5-107, Class 1	**Epibond® 420 A/B**
	Araldite® 420 A/B
BMS 5-123, Type 1, Class 3	**Epibond® 8543 C/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 4, Class 1, Gr B	**Epibond® 1544 A/C**
BMS 5-126, Type 4, Class 4, Gr B	**Epibond® 1544-1 A-82/D**
	Epibond® 1544 A-71/D
BMS 5-126, Type 6, Class 1, Gr B	**Epibond® 1539 A/B**
BMS 5-164, Type 1	**Agomet® F307**
BMS 8-201, Type 3	**Epocast® 50 A1/9816**
BMS 8-201, Type 4	**Epocast® 50 A1/946**
Boeing / MESA HS5933 (A) 100-25	**Epocast® 1614-A1-67/CSI**
Boeing / MESA HS5933 (A) 150-25	**Epocast® 1614-A1-66/CSI**
Boeing / MESA HS5933 (A) 150-35	**Epocast® 1614-A1-65/CSI**
Boeing / MESA HS5933 (A) 150-50	**Epocast® 1614-A1-68**
Boeing / MESA HS5933 (A) 150-100	**Epocast® 1614-A1-64/CSI**
D800-10411-1, PDD 6-1	**Epibond® 1565 A/B**
HMS 16-1068, Class 8B	**Epibond® 1217 A/B**
MMS 347, Type 2, Rev G, ADD 1	**Epocast® 1614-A1**

Bombardier

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

Cessna

CMNP085	**Epocast® 1652 A/B**

Cirrus

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

Dassault Aviation

DGQT 1.7.0.22	**Araldite® 2011**

Douglas

HMS 16-1115, Type 3, SUPP 1	**Araldite® 501 A/B**

Embraer

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

FACC

FMS 4140	**Araldite® 2013**

Fairchild Dornier

DON 816	**Araldite® 2026**

Fokker

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

Gamesa Aeronautica

GMS 124047	**Epocast® 1617 A/B**
GMS 124050	**Epibond® 1544 A-82/D**

GE

EMPIS A15 B205 (GE A15B205D1)	**Epocast® 1614-A2**
EMPIS A15 B218 A1	**Epocast® 1645 A/B**

Goodrich

RMS 027, Type XV, SCO 036	**Epocast® 927-1 GB**

Gulfstream

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

Hamilton-Sundstrand

CM34.40-38-01	**Epibond® 1210 A/B**

Hawker de Havilland

DHMS P1.30 Grade 2	**Epocast® 8623-A / 9861**
DHMS P1.30 Grade 2A	**Epocast® 8623-A / 946**
EN-106G309	**Epocast® 1614-A1**

Heath Tecna

HMS A4-001, Type 1, Class 2	**Uralane® 5774 A/C**
HMS A4-001, Type 1, Class 3	**Uralane® 5779 A/B**
HMS A5-001, Type 1, Class 1	**Epibond® 8000 FR A/B**
HMS A5-001, Type 2, Class 3	**Epibond® 1559-1 A/B**

Hexcel

RMS 8955, C	**Araldite® 403 A/B**
RMS 8957, E	**Araldite® 420 A/B**

Hurel-Hispano

HS/DFO-010	**Epocast® 1652 A/B**

Kaman Composite

CMS-007-3	**Epocast® 1636 A/B**
CMS-007-4	**Epocast® 1617 A/B**

Kearfott

Y105A053-101	**Epibond® 1217 A/B**

Lockheed Martin

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

Loral

23-P12027-0003	**Epibond® 1210 A/9861**

MBDA

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

MD Helicopters

MDM16-1068, Class 8B	**Epibond® 1217 A/B**
MDM16-1115, Type 3	**Araldite® 501 A/B**

Meggitt Composites

MS 0013	**Araldite® 420 A/B**

Mitsubishi

M1074, Type 1	**Epocast® 167 A/B**
M1074, Type 2	**Epocast® 1629 A/B**
M1129, Class A	**Epocast® 169 A-1/9615**

NORDAM

NTR-MS 1301, Type 2, Class 4, Gr F	**Epocast® 1614-A1**
	Epocast® 1614-A2

Northrop Grumman

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

Piaggio Aerospace

NP190112, Type 17	**Epocast® 1617 A/B**

Pratt & Whitney

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

ROHR

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

Rolls Royce

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

Roxel

204 251-PS/1/E000	**XD 4236-3**
MTA 00137	**Araldite® 2011**

SAE Aerospace (CACRC)

AMS 2980	**Epocast® 52 A/B**

Sikorsky

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

Spectrolab

44418	**Epibond® 1210 A/9861**

Spirit Aero System

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

Sundstrand

CM 34.40-38-01	**Epibond® 1210 A/B**

Triumph Composite

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

United Launch Alliance (ULA)

STM M1067, Type 1 & Type 2	**Epocast® 1614-A1**

US Navy

5675396	**Uralane® 5776 A/B**
NWC 78A151	**Uralane® 5774 A/C**
WS 9087	**Uralane® 5776 A/B**

Vought

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

Westland Helicopters

WHPS 012	**Araldite® AY 103-1 / HY 951**
WHPS 418	**Araldite® AY 105-1 / HY 953F**

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

www.araldite adhesives.com

HUNTSMAN

Enriching lives through innovation

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