Advanced Materials

HUNTSMAN

Enriching lives through innovation

HIGHER PERFORMANCE AND PRODUCTIVITY LOWER MAINTENANCE COSTS

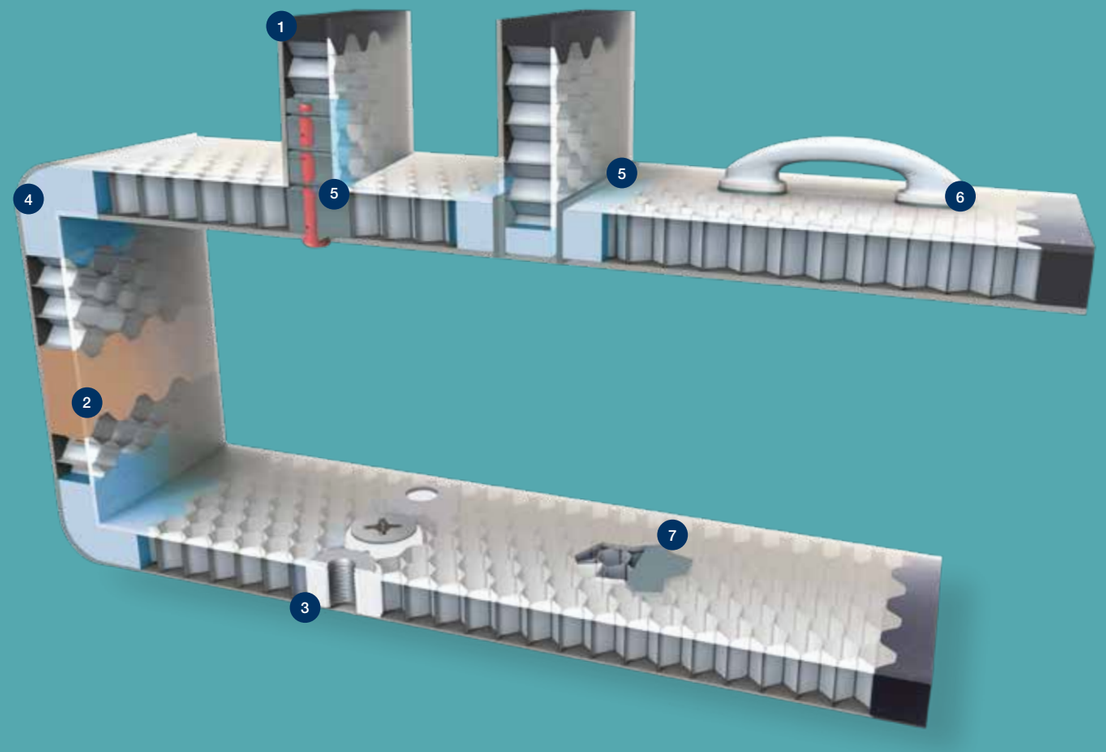
Aerospace materials for production, assembly and maintenance



From increasing throughput to reducing aircraft weight, our void fillers, adhesives, and composite material solutions enable you to operate a more sustainable and successful business.

MADE POSSIBLE

SOLVING AEROSPACE CHALLENGES FOR MORE THAN 70 YEARS



Void fillers for core reinforcement and insert potting	Adhesives for joining and bonding	Laminating resins for composite production and repair
1. Edge fill and close out 2. Panel reinforcement 3. Insert potting 4. Panel forming	5. Panel pin bonding 6. Component bonding	7. Manufacturing and repair

Now more than ever, the aerospace industry is under pressure to reduce production times and costs. As a result, manufacturers and operators must find new ways to minimize expenses and maximize productivity.

At Huntsman Advanced Materials, we make things possible. Whether it is helping to realize innovative new designs, reduce weight for greater fuel efficiency, optimize production and maintenance, improve throughput, or more, our specialty material solutions will enable you to achieve your ambitions and drive sustainable growth.

For over 70 years, our adhesives, composites, and void fillers have been the products of choice for aerospace businesses like yours to help solve engineering challenges. Our unparalleled insight into the aerospace industry and processes means we know what you need to deliver performance, efficiency, and reliability, while consistently meeting global standards.

↑75%

Our adhesives allow weight reduction by up to 75% when compared to mechanical fasteners.

Reduced cycle time	Lightweight design	Lower manufacturing costs
Our solutions help unlock production bottlenecks by improving productivity without compromising technical performance.	Our materials meet stringent mechanical requirements while offering a variety of density options, allowing for the lightest weight selection.	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	Flame retardancy	Sustainability
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 concentration.	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 civil and commercial aircraft.	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.

EDGE AND VOID FILLERS
FOR CORE REINFORCEMENT AND INSERT POTTING

	Product	Mix ratio	Consistency	Gel time	Max service temperature	Compressive strength	Density	Color	Flame retardant	Packaging					OEM specifications
										Cartridges	Kits	Semkits®	Bulk	Patties	
	Conditions		23°C / 73°F	25°C / 77°F		23°C / 73°F									
	Units	pbw		min	°C / °F	MPa / ksi									
Low density ↑ Two-component	EPOCAST® 1645 FR A/B	100 : 100	Paste	65 (100 g)	175/350	20 / 2.9	0.48	Brown	•		•				GE EMPIS A15 B218 A1 / BMS 5-28 Type 9
	EPOCAST® 1629 A/B	100 : 50	Paste	70 (75 g)	N/A	20 / 2.9	0.48	Off-white	•		•				Boeing BMS 5-28, Ty 9 / Mitsubishi M1074, Ty 2 / Raytheon BS 23818 Cl 1, Ty 1
	EPOCAST® 1628 A/B	100 : 25	Paste	65 (62.5 g)	N/A	8 / 1.2	0.50	Pale yellow	•		•				Boeing BMS 5-28, Ty 28 / TriumphTEC-M-20710-6, Ty 1
	ARALDITE® 1641 A/B	100 : 30.5	Soft paste	Work life : 180 (50 g) at 23°C / 73°F	90°C	15 / 2.18	0.50	Pale blue				•	•		Rolls-Royce MSRR 1076
	ARALDITE® 1644 A/B	100 : 20	Paste	Work life : 35 (200 g) at 23°C / 73°F	80°C	30 / 4.4	0.55	Pale green					•		Airbus AIMS 10-03-001-02
	EPOCAST® 1626 C1/D2	100 : 54	Paste	12 (77 g)	N/A	8 / 1.2	0.69	Brown		•					Boeing BMS 5-28, Ty 26, Cl 2 / Spirit SMS 116201, Ty 3
	EPOCAST® 1648 A/B	100 : 20	Paste	18 (60 g)	N/A	50 / 7.3	0.70	Off-white	•		•	•			Boeing BMS 5-28, Type 18 Class 1
	EPOCAST® 1649-1 A/B	100 : 50	Paste	10	N/A	40 / 5.8	<0.74	Light blue	•	•					Huntsman standard certification
	EPOCAST® 1617 A/B	100 : 20	Paste	60 - 90 (60 g)	N/A	40 / 5.8 at 77°F	0.70	Off-white	•		•				Boeing BMS 5-28, Type 17 / Rohr RMS 027, Type 5, Class 3, SCO 036 / Bombardier SMS 41, Type 3 / Alenia MDL08055 / Gamesa GMS 124047 / Kaman CMS-007-4 / Piaggio NP190112, Type 17
	EPOCAST® 1618 D/B	100 : 14	Paste	15 (55 g)	N/A	40 / 5.8 at 77°F	0.70	Off-white	•		•	•			Boeing BMS 5-28, Type 18, Class 1
	EPOCAST® 1619-1	100 : 25	Semi-paste	20 - 50 (60 g)	N/A	50 / 7.3	0.70	Off-white	•	•	•				Boeing BMS 5-28, Type 19
	ARALDITE®252-1/ Hardener 252-2	100 : 30	Paste	120 - 300 (at 23°C / 73°F)	80°C	45 / 6.5	0.75	Blue or white	•		•		•		Airbus ASNA 4072 ind.B / Airbus AIMS 10-03-005
	EPOCAST® 1652 A/B	100 : 12	Paste	30 - 60 (100 g)	175/350	55 / 8.0 at 77°F	0.80	Light tan			•	•			Grumman GM 4006, Type 1, Class B, FM 1 / Sikorsky SS-9587, (-003A) Type 2, Class 1 / Embraer MEP 10-051, Type 2, Class 1 / Gulfstream GMS 4005, Type 1, Class B, FM 1 / Allied Signal PCS 5606 / Hurel-Hispano HS/DFO-010
	EPOCAST® 89537 A/B	100 : 18.5	Pourable	70 (60 g)	175/350	60 / 8.7 at 77°F	0.90	Grey	•		•				Airbus I+D-N-200 - Z18.115-2 / Boeing BMS 5-28, Type 7, Class 2 / Lockheed Martin STM M1069 / Alenia MDL8027, Type 7
	CG 1305 A/B	100 : 20	Pourable	> 60 (60 g)	175/350	62 / 9.0 at 77°F	0.90	Off-white	•		•	•			Boeing BMS 5-28, Type 7, Class 3 / Alenia MDL8027, Type 7 / Spirit SMS-116201, Type 1
	EPOCAST® 1636 A/B	100 : 8	Pourable	120 (55 g)	N/A	100 / 14.5 at 77°F	1.72	Grey	•		•				Boeing BMS 5-28, Type 6 / Gulfstream GMS 4005, Type 1, Class C, FM 2 / Kaman CMS-007-3
High density ↓	EPOCAST® 1635 A/B	100 : 23	Soft paste	> 60 (60 g)	175/350	100 / 14.5 at 77°F	1.80	Blue-Grey		•	•				Boeing BMS 5-28, Type 31
Low density ↑ One-component	EPOCAST® 1614-A3	Premixed	Extrudable paste	Work life : 24h	175/350	125 / 18.1	< 0.75	Reddish-brown	•	•				•	GE EMPIS A15 B205 (GE A15B205D1) / Grumman ACS-MRS-5601
	EPOCAST® 927-1	Premixed	Extrudable paste	Work life : 24h after thaw	175/350	125 / 18.1	1.15	Off-white		•					Goodrich (Collins Aerospace) RMS 027, Type XV, SCO 036
High density ↓	EPOCAST® 938-A3	Premixed	Extrudable paste	18h after thaw (100 g)	175/350	150 / 21.8	< 1.4	Yellow	•	•					Boeing BMS 5-28, Type 12, Class 1 & 2 / Boeing BMS 5-28, Type 13 / Vought VM 4006, Type 3, Class B, FM 1, AM 2 / Grumann GM 4006, Type 3, Class B, FM1
	EPOCAST® 1627-2	Premixed	Extrudable paste	24h after thaw	175/350	200 / 29.0	1.80	Grey		•				•	Boeing BMS 5-28, Type 27 / Airbus Coasa RP1021209

ARALDITE® and EPOCAST® epoxy edge and void fillers provide you with the ideal solution for edge sealing, insert potting, and for honeycomb assembly, reinforcement, and repair.

Our portfolio is qualified to Airbus, Boeing, Goodrich (Collins Aerospace), Gulfstream, Bombardier, Bell, Rohr, Rolls Royce, and other key OEM specifications, and are listed as approved repair materials in many Structural Repair Manuals and Service Bulletins. Known for their outstanding performance, our products are found in a wide variety of aircraft parts today, from nacelles, engines, rudders, and radomes, to overhead bins, cabin doors, interior panels, and cabin flooring.

↑50% Increase productivity by up to 50%

↑40% Up to 40% better compressive strength

↑40% Improve off-ratio mix tolerances by up to 40%

TRUSTED ADHESIVES
FOR JOINING AND BONDING

	Product	Mix ratio	Mixed viscosity	Gel time	Pot life conditions for measure	Suggested cure schedule	Max service temperature	Lap shear strength Al/Al		T-peel	Color	Flame retardant	Pack-aging		OEM specifications
	Conditions		23°C / 73°F	100 g at 25°C / 77°F	100 g at 23°C / 73°F			23°C / 73°F	80°C / 176°F				Cartridges	Kits / Bulk	
	Unit	pbw	Pa.s	min	min		°C / °F	MPa / ksi	MPa / ksi	pli					
EPOXY	EPIBOND® 315 A/B	100:61.5	Non-sag paste	45	N/A	3 - 5 days at 25°C / 77°F or 1 h at 65°C / 150°F	204 / 400	34 / 5.0	29 / 4.2	12	Grey		•	•	Huntsman standard certification
EPOXY	EPIBOND® 115 A/B	100:50	Thixotropic paste	135 - 145 (180g)	N/A	1 h at 65°C / 150°F + 3 - 5 h at 93°C / 200°F	148 / 300	34 / 5.0	28 / 4.0	10	Off-white			•	Cirrus E00000061, Type 1, Form B
EPOXY	EPIBOND® 215 A/B	100 : 45	Non-sag paste	100 (20 g)	30	1 h at 65°C / 150°F + 4 - 5 days at 25°C / 77°F	148 / 300	32 / 4.6	24 / 3.5	71	Off-white		•	•	Huntsman standard certification
EPOXY	ARALDITE® 1570 FST A/B	100 : 88	Paste	N/A	140	48 h at 25°C / 77°F or 1.5 h at 93°C / 200°F	100 / 212	18 / 2.6	0.40	N/A	Dark grey	•	•		AIMS 10-04-006
EPOXY	EPIBOND® 200 A/B	100 : 100	Non-sag paste	100	N/A	3 - 5 days at 25°C / 77°F or 2 h at 57°C / 150°F	93 / 200	22 / 3.2	7 / 1.0 at 93°C / 200°F	27 (roller peel)	Grey		•	•	Huntsman standard certification
EPOXY	ARALDITE® 2015-1	100 : 100	Thixotropic	N/A	50	RT/5 days	100 / 212	20 / 2.9	10 / 1.5	N/A	Beige		•	•	Huntsman standard certification
EPOXY	ARALDITE® 2011	100 : 100	40	N/A	100	RT/5 days	90 / 194	26 / 3.8	8 / 1.2	29 (Roller)	Pale Yellow		•	•	Airbus AIMS 10-04-020; ABP 5-1158; ASNA 4049; Dassault Aviation DGQT 1.7.0.22; MBDA PS 1728; Fokker TH5.558/1;TH5.558/6; Roxel MTA 00137
EPOXY	ARALDITE® 2013-1	100 : 100	Thixotropic	N/A	85	RT/5 days	80 / 176	17 / 2.4	4 / 0.6	N/A	Grey		•	•	FACC, FMS 4140
EPOXY	ARALDITE® 420 A/B	100 : 50	Thixotropic	N/A	60	RT/5 days	80 / 176	37 / 5.4	5 / 0.7	41 (T-peel)	Dark Green		•	•	Airbus, ASNA 4125 Airbus Defense & Space I+D-N-200 - Z15.213/1
EPOXY	EPIBOND® 8000 FR A/B	100 : 48	Paste	65-70	N/A	5-7 days at 25°C / 77°F or 1.5 h at 57°C / 135°F	82 / 180	27 / 3.9	9 / 1.3	23 (roller peel)	Off-white	•	•		Bombardier BOMS 820-001, Type 2 / Heath Tecna HMS A5-001, Type 1, Class 1
EPOXY	EPIBOND® 420 A/B	100 : 40	Semi-paste	70	60	7 days at 25°C / 77°F or 1 h at 121°C / 250°F	65 / 150	31 / 4.5	3 / 0.50	N/A	Blue-green		•	•	Triumph TCE-M-20710-4, Ty 1 / Boeing BMS 5-107, Class 1 / Meggitt Composites MS 0013
PU	URALANE® 5774-1 A/C	100 : 55	Semi-paste	15-25	N/A	7 days at 25°C / 77°F or 2 h at 93°C / 200°F	82 / 180	15 / 2.2	9 / 1.3	35	Beige	•	•	•	Boeing BMS 5-105, Type 5 / Heath Tecna HMS A4-001, Type 1, Class 2 / US Navy NWC78A151 / Gulfstream GAA 100BN1 / Army 13312291
PU	URALANE® 5779 A/B	100 : 98	Non-sag paste	8-15	N/A	7 days at 25°C / 77°F or 4 h at 57°C / 150°F	82 / 180	8 / 1.2	N/A	10	White		•		Boeing BMS 5-105, Type 6I / Heath Tecna HMS A4-001, Type 1, Class 3
PU	URALANE® 5779 A80/B	100 : 98	Non-sag paste	8-15	N/A	7 days at 25°C / 77°F or 4 h at 57°C / 150°F	82 / 180	8 / 1.2	N/A	10	Beige		•		Boeing BMS 5-105, Ty 6
Acrylic	ARALDITE® 2051	100 : 100	Thixotropic	N/A	4-6 minutes (20 gr at 25°C)	24 hour at RT or 16 hours at 40°C	120 / 248	>30 / >4.4	40 / 5.8	40	Pale Yellow		•		Huntsman standard certification
Acrylic	ARALDITE® 2022-1	100 : 100	Thixotropic	N/A	10	RT/5 days	100 / 212	26 / 3.8	15 / 2.2	42 (T-peel)	Pale Yellow		•		Huntsman standard certification

Our high-performance ARALDITE®, EPIBOND® and URALANE® adhesives provide superior joining and bonding solutions for plastics, metals, composite materials and other substrates. Huntsman adhesives are proven to offer manufacturing process improvements and reductions in weight over other fastening methods.

Additionally, manufacturers can select adhesives resistant to fatigue, chemicals and high 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.

↑80% Increase throughput by up to 80%

↑75% Reduce weight compared to mechanical fasteners by up to 75%

↑150% Improve mechanical strength by up to 150%

COMPOSITE SYSTEMS FOR
PRODUCTION AND MRO

COMPOSITE SYSTEMS FOR REPAIR

Product	Mix ratio	Mixed viscosity	Gel time	Suggested cure schedule	Nominal service temperature	Compressive strength	Color	Flame retardant	Packaging		Representative OEM specifications
Conditions		at 23°C / 73°F	100g at 25°C/ 77°F			23°C / 73°F			Kits	Bulk	
Units	pbw	cP	min	°C /°F	°C /°F	MPa					
EPOCAST® 35 A / 927	100 : 25	7 000	240 - 300	4 h at 82°C / 46°F or 2 h at 121°C/ 250°F	147 / 298	67 *	Amber		●		Boeing BMS B-214, Ty1
EPOCAST® 50-A1 / 946	100 : 15	2 400	20	5 days at 2520 at 25C/77°F or 2 h at 77-93°C /170-200°F	-	48 *	Amber	●	●		Boeing BMS B-201, Ty4 / Embraer MEP 22-011
EPOCAST® 54 A/B	100 : 15	8 000	15 - 25	5 days at 25°C / 77°F or 2 h at 66-93°C/ 150-200°F	-	49 *	Light amber	●	●		Airbus IPS 04-27-001-01
EPOCAST® 52 A/B	100 : 40	5 500	210 - 330	3 h at 66°C / 150/°F or 2 h at 93°C / 200°F	176 / 350	-	Blue		●		Airbus IPS 06-01-002-01 / Eurocopter ECS 0049 Part 1 / SAE Aero AMS 2980
EPOCAST® 50-A1 / 9816	100 : 14	2 400	65	5 days at 25°C / 77°F or 2 h at 77-93°C / 170-200°F	-	47	Amber	●	●		Boeing BMS B-201, Ty3 / Embraer MEP 22-011
ARALDITE® 501 A/B	100 : 15	3 500	90	7 days at 25°C/ 77°F or 16 h at 45°C / 113°F or 2 h at 70°C / 158°F	120 / 248	-	Blue		●		Douglas HMS 16-1115 Ty3 / MD Helicopters MDM16-1115, Ty 3

*12-ply laminate using 7781-type glass fabric

COMPOSITE SYSTEMS FOR STRUCTURAL AND INTERIOR PARTS MANUFACTURING

Product	Short Description	Mix Ratio (by weight)	Mixed Viscosity RT (mPa.s)	Gel time 80°C / 176°F (min)	Typical cure cycle	Typical Tg (°C / °F)	Flexural Strength (MPa / ksi)	K_{1C} (MPa.√m)	Strain / Elongation (%)
ARALDITE® 40002/40003	FAR 25.853 FST compliant and halogen-free solutions designed for structural interior applications. Fast curing capability (ca 5 min / 150°C / 300°F).	100 : 25	600 - 800	40	1 h at 100°C/ 212°F + 1 h at 120°C / 248°F + optional 2 h at 180°C / 356°F free-standing post-cure for large parts	260 / 500	135 / 19.6	0.9	5
ARALDITE® 40002/40006		100 : 25	450 - 550	40	5 min at 150°C / 302°F or 30 min at 120°C / 248°F + optional 2 h at 180°C / 356°F free-standing post-cure for small / medium parts	210 / 410	135 / 19.6	0.6	4
ARALDITE® LY 8615 / XB 5173	High Tg system with excellent processability	100 : 38	320	25	2 h at 180°C / 356°F	200 / 392	115 / 16.7	0.7	5
ARALDITE® LY 3508 / ARADUR® 22962	Toughened system with a good balance between productivity / processing	100 : 22	2,000 (cP)	30	2 h at 150°C / 302°F	145 /293	125 / 18.1	1.1	9
ARALDITE® LY 1564 / ARADUR® 2954	Versatile system with excellent processability	100 : 35	600	40	2 h at 160°C / 320°F	135 / 275	100 / 14.5	0.75	7
ARALDITE® 570 Resin / ARADUR® 2954 Hardener	Medium Tg with outstanding mechanical performance	100 : 41	600	314 (at 60°C)	2 h at 120°C / 248°F	130 / 266	130 / 18.9	1.1	7.5
ARALDITE® LY 3508 / ARADUR® 3475	Toughened system for mass production	100 : 20	1,200 (cP)	7	1 min at 140°C / 284°F	120 / 248	70 / 10.2	1.5	9
ARALDITE® LY 5052 / ARADUR® 5052	Low viscosity Cold curing system	100 : 38	600	15	1 day 23°C / 77°F + 15 h 50°C / 122°F or 1 day 23°C / 77°F + 4 h 100°C / 212°F	120 / 248	135 / 19.6	0.8	6

For decades, Huntsman composite systems have been the industry standard for the manufacturing and repair of many different aircraft parts, including radomes, fairings, flight control surfaces, cargo and cabin panels, and more.

Our composite systems combine ease of handling with excellent mechanical strength to perform in the most demanding applications and environments. Many are also flame retardant and can be used to wet out fiberglass, carbon fiber, and honeycomb core reinforcements.

ARALDITE® and EPOCAST® composite systems provide outstanding mechanical performance for manufacturing and maintenance, repair and overhaul (MRO).

MATERIAL SPECIFICATIONS

The majority of our products are qualified to aircraft and engine manufacturer's specifications across platforms including fixed wing, rotorcraft, and spacecraft.

We are continuously striving to increase these approvals through on-going innovation and development. The specification list undergoes continuous updates, thus it's advised to refer to the latest specification revision for accurate product qualifications.

Airbus	
ABP 5-1158	**ARALDITE® 2011**
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 & ASNA 4072	**ARALDITE® 1644 A/B**
AIMS 10-03-005	**ARALDITE® 252-1**
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**
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 Defense and Space	
MPS0059	**ARALDITE® 403 A/B**
MPS.0011328.DM.S.ADS	**ARALDITE® AV 138M-1 / HV 998-1**

Airbus Helicopters	
ECS 0049	**EPOCAST® 52 A/B**

Alenia Aermacchi / Leonardo	
MDL08055	**EPOCAST® 1617 A/B**
MDL8027, Type 7	**CG 1305 R/H**

Allied Signal / Honeywell	
PCS 5606	**EPOCAST® 1652 A/B**

Army	
13312291	**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 5-28, Type 3	**EPOCAST® 1511 A/B**
BMS 5-28, Type 6	**EPOCAST® 1636 A/B**
BMS 5-28, Type 7, Class 2	**EPOCAST® 89537 A/B**
BMS 5-28 Type 7, Class 3	**CG 1305 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 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**
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 4, Gr B	**EPIBOND® 1544-1 A-82/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**

Collins Aerospace	
LCMS 202, Type 1	**URALANE® 5774 A/C**
MS 3002, Rev 2	**EPOCAST® 1649-1**

Embraer	
Embraer/Kawasaki 190-38790-903	**EPOCAST® 1614-A1-61/CSI**
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 (AV144-2 / HV-997)**

Fairchild Dornier	
DON 816	**ARALDITE® 2026**

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

Goodrich (Collins Aerospace)	
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**

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 8957, E	**ARALDITE® 420 A/B**

Kaman Composite	
CMS-007-4	**EPOCAST® 1617 A/B**

Leonardo	
MDL08055	**EPOCAST® 1617 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**

MD Helicopters	
MDM16-1068, Class 8B	**EPIBOND® 1217 A/B**
MDM16-1115, Type 3	**ARALDITE® 501 A/B**

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**

Pratt & Whitney	
CPW 505	**EPOCAST® 1656 A/B**
PWA 452	**EPOCAST® 1614-A1**
PWA 36757	**EPOCAST® 1661**

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

SAE Aerospace (CACRC)	
AMS 2980	**EPOCAST® 52 A/B**

SAFRAN Nacelle	
HS/DFO-010	**EPOCAST® 1652 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**

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

Triumph Aerostructures	
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**

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**

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