

Key questions

Adhesives	Epoxy	Methacrylate	Polyurethane
	Load-bearing adhesives good for metals and composites	Fast setting and resilient for composites, thermoplastics and metals	Flexible adhesive for composites and certain thermoplastics
1. Do you require a multi-purpose adhesive with a rapid cure?	Araldite® 2012	Araldite® 2047-1	–
2. Do you require a multi-purpose adhesive with a long working life?	Araldite® 2011	–	Araldite® 2029
3. Do you require a fast cure adhesive?	Araldite® 2012	Araldite® 2021 Araldite® 2047-1	Araldite® 2028-1
4. Do you have large areas for bonding and/or require a long working time?	Araldite® 2013 Araldite® 2014-1 Araldite® 2031	–	Araldite® 2029 Araldite® 2018
5. Do you require high toughness and the ability to bond different substrates?	Araldite® 2015 Araldite® 2031	Araldite® 2022 Araldite® 2048 Araldite® 2047-1	Araldite® 2029
6. Do you require chemical resistance or performance at high temperatures?	Araldite® 2014-1	Araldite® 2052-1	–
7. Do you require an adhesive for gap filling or vertical applications?	Araldite® 2013 Araldite® 2014-1 Araldite® 2015 Araldite® 2031	Araldite® 2021 Araldite® 2022 Araldite® 2047-1 Araldite® 2048	Araldite® 2029
8. Do you require a flexible adhesive?	–	Araldite® 2048	Araldite® 2018 Araldite® 2028-1
9. Do you require a transparent adhesive?	–	–	Araldite® 2028-1

Huntsman Advanced Materials

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

Our capabilities in high-performance adhesives and composites, delivered by more than 2300 associates, serve over 3000 global customers with innovative, tailor-made solutions and more than 1500 products which address global engineering challenges.

Global presence – 13 manufacturing sites



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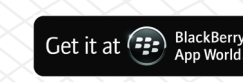
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Mobile App from Huntsman Advanced Materials

Download our mobile App and easily find the adhesive to fulfill your need.



Concept and design by Zygmund SARL

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Ref. No. AdMat Araldite® 2000plus selector guide 06.12_EN_EN

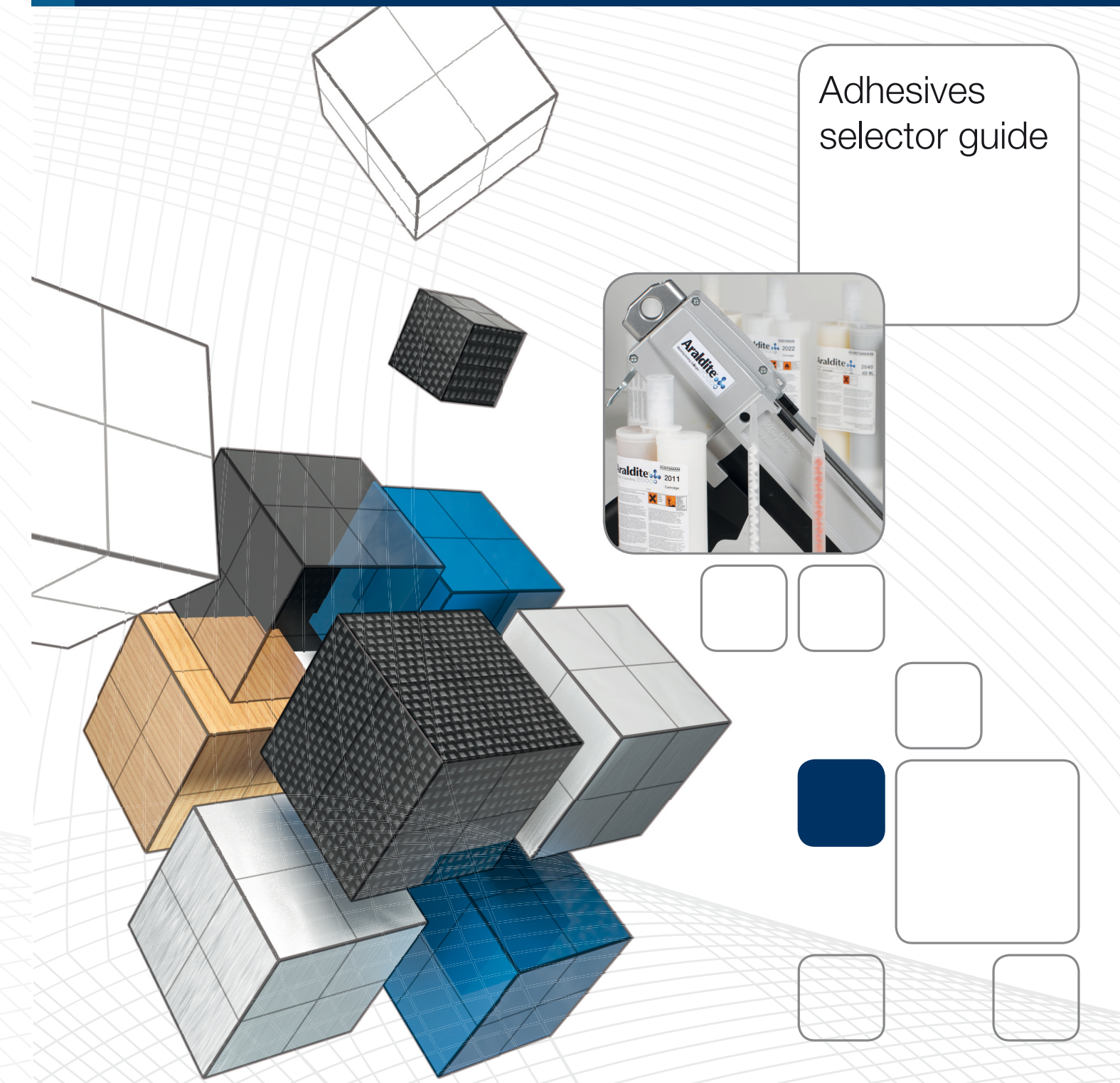


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Advanced Materials

Araldite® adhesives
Strength in bonding 2000+



Properties and performance

	Chemical type	Key features	Metals						Thermosets / composites				Thermoplastics					Miscellaneous substrates				Viscosity	Work time	Cure speed	Mechanical properties		Bond strength	Durability in			Colour (mixed)	Packaging												
			Mild steel	Stainless steel	Aluminium	Copper	Brass	Galvanized steel	GRP (UP)	GRP (EP)	CFRP	SMC	PVC	PA	ABS, ASA, SAN	PC	PMMA	Ceramic	Glass	Rubber	Wood				E-modulus at 23°C	Elongation at break at 23°C		LSS* aluminium at 23°C	Water / humidity	Chemicals		Heat	50 ml	200ml	380ml	480ml	WP (2kg)							
Conditions																						Pot life (100g at 23°C)		Cure time at 23°C to LSS* = 1 N/mm²		E-modulus at 23°C	Elongation at break at 23°C	LSS* aluminium at 23°C	Water / humidity	Chemicals	Heat		50 ml	200ml	380ml	480ml	WP (2kg)							
Unit																						Pa·s	min	min		N/mm²	%	N/mm²																
Araldite® 2011	EP	> Multi purpose > Long working life > Good resistance to dynamic loading	●●●	●●●	●●●	●●●	●●●	●●●		●●●	●●●	●●●	●●●	●	●●	●●●	●●	●	●●●	●●●	●●●	●●●	40	100	420		1900	9	26	●	●●	●●		yellow	○	○	○		○					
Araldite® 2012	EP	> Fast curing > General purpose > Good long term durability	●●●	●●●	●●●	●●	●●●	●		●●●	●●●	●●	●●	●●	●	●●	●●	●	●●●	●●●	●	●●●	30	6	20		2520	4	18	●●	●●●	●●		yellow	○	○			○					
Araldite® 2013	EP	> Metal coloured paste > Suitable for vertical applications > Good environmental, chemical and temperature durability	●●●	●●●	●●●	●●	●●	●●●		●●●	●●	●●	●●●	●●●	●	●	●	●●	●●●	●●●	●	●●●	thixotropic	65	240		1300	1	18	●●	●●	●●		grey	○	○	○			○				
Araldite® 2014-1	EP	> Grey paste > High temperature and chemical resistance > Excellent durability on metals and against many chemicals	●●●	●●●	●●●	●●	●●	●		●●●	●●●	●●	●●●	●●	●	●●	●	●	●●	●●●	●●	●●●	thixotropic	60	180		4000	1	19	●●●	●●●	●●●		grey	○	○	○				○			
Araldite® 2015	EP	> Toughened paste > Ideal for GFRP, SMC and dissimilar substrates > Excellent resistance to dynamic loading	●●●	●●●	●●●	●●●	●●●	●		●●●	●●●	●●●	●●●	●●	●	●●	●●	●●	●●●	●●●	●●	●●●	thixotropic	35	240		2000	4	16	●●●	●●●	●●●		beige	○	○	○					○		
Araldite® 2031	EP	> Toughened adhesive, resilient bond > Suitable for metal and composite bonding, good adhesion onto polyamides	●●	●●●	●●	●●●	●●●	●●		●●●	●●●	●●	●●●	●●	●●●	●●	●●	●	●●●	●●●	●●	●●●	thixotropic	60	360		1000	5	19	●●●	●●●	●●●		black	○		○							
Araldite® 2018	PUR	> Good UV stability > Ideal for bonding thermoplastics > Long working life	●●	●	●	●	●	●●		●●●	●●●	●●●	●●●	●●	●●	●●●	●●●	●●	●●	●●●	●●	●●●	8	40	240		16	45	7	●●	●	●●		colourless		○								
Araldite® 2028-1	PUR	> Transparent > Fast curing > UV stable	●●	●●	●●	●	●	●●●		●●●	●●●	●●●	●●●	●●●	●●	●●●	●●●	●●	●●	●●	●●	●●	5	6	15		16	60	15	●	●	●●		transparent	○									
Araldite® 2029	PUR	> Medium open time > Designed to bond composites and metals > Well balanced strength and durability	●●●	●●●	●●●	●●●	●●	●●●		●●●	●●●	●●●	●●	●●●	●●	●●●	●●●	●●●	●●	●●	●●	●●	thixotropic	40	240		580	47	25	●●	●●	●●●		grey	○									
Araldite® 2021	MMA	> Rapid curing > High peel and shear strength > Multi purpose	●●●	●●●	●●●	●●	●	●●		●●●	●●	●●	●●	●●	●●●	●●●	●●●	●●●	●●●	●●	●	●●●	thixotropic	3	8		2300	5	23	●●	●●	●●●		yellow	○		○							
Araldite® 2022	MMA	> Ideal for bonding thermoplastics > Multi purpose > Good sanding properties	●●●	●●●	●●●	●●	●●	●●●		●●●	●●	●●	●●	●●	●●●	●●	●●●	●●●	●●●	●●	●●	●	●●●	thixotropic	10	18		2050	3	25	●●	●	●●●		yellow	○		○						
Araldite® 2047-1	MMA	> Outstanding adhesion to copper, brass, galvanized and stainless steel > Requires minimal surface treatment > Gap filling up to 5 mm	●●	●●●	●●	●●●	●●●	●●●		●●	●	●	●●	●●●	●	●●●	●●●	●●●	●●	●●	●●	●	●●●	thixotropic	5	15		850	15	12	●●	●●	●●		brown	○						○		
Araldite® 2048	MMA	> Tolerant to "less than ideal" pretreatment > Gap filling up to 8 mm > Tough flexible bonds for use in dynamic environment	●●	●●●	●●	●●●	●●●	●●		●●	●●●	●●●	●●●	●●●	●●	●●●	●●●	●●●	●●	●●	●●	●	●●●	thixotropic	10	15		360	91	24	●●	●	●●●		red	○							○	
Araldite® 2052-1	MMA	> Very high temperature and chemical resistance > Tolerant to "less than ideal" pretreatment > Excellent on metals	●●	●●●	●●●	●●●	●●●	●		●	●	●	●	●●	●	●●●	●●	●●●	●●●	●●●	●	●	●●●	thixotropic	15	20		1750	7	24	●●	●●●	●●●		red								○	

EP: Epoxy adhesives
 PUR: Polyurethane adhesiv
 MMA: Methacrylate adhesiv

* LSS = Lap Shear Strength

