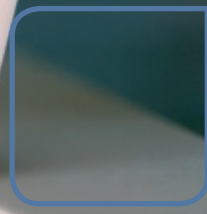


# Araldite®

Reliable and comprehensive bonding solutions



Raising performance in assembly operations





# Our mission: provide unique bonding technologies that create value for our customers

## **Araldite®**

The adhesives serving worldwide manufacturing industry for more than half a century

Structural bonding techniques play a key role in today's assembly operations. As designers strive to bring lightweight and durable products to market in the quickest time possible, they increasingly choose industrial adhesives as the best solution for complex design issues.

Based on 60 years heritage as pioneers in high performance adhesive technology, Huntsman has developed an extensive range of adhesives to provide solutions to the great majority of design issues engineers face on a daily basis.



### **Adhesives deliver long term performance and durability**

Adhesive bonding enables the most efficient use of materials, maximising their long-term potential while optimising manufacturing methods with easy handling and processing.

Compared to mechanical joining, adhesive bonding allows the assembly of dissimilar substrates and higher weight loads to be carried while offering more uniform stress distribution across the entire bonded joint and superior fatigue resistance.

Adhesives facilitate the integrity and strength of materials as there are no holes, rivets or fastening elements to weaken the structure. Without any visible joining elements, nothing detracts from the aesthetics of the finished parts and greater lightweight design flexibility can be achieved.

Additionally, adhesives offer the potential to reduce costs in parts production through streamlined assembly processes and hence faster cycle times.

Therefore adhesives have become essential in manufacturing exterior and interior parts in order to deliver superior performance, durability, and aesthetic.

### **We deliver more than just products**

Huntsman's high performance structural adhesives are designed for those who require high strength in their assemblies at reduced production process costs. Our products help overcome a wide variety of challenges such as fast curing cycles with high initial green strength, durability under dynamic stress, impact resistance, corrosion resistance, and multi-substrate joining.

As a strategic partner to many industries, our company keeps on tailoring its products and services to the evolving needs. Based on state-of-the-art epoxy, polyurethane and methyl methacrylate technologies, Araldite® adhesives provide superior joining and bonding solutions for plastics, metals, composite materials and other substrates. This results in higher productivity rates, increased design freedoms, secured long-term performance and safety of assemblies.

All Huntsman's products are tested in-house in certified mechanical testing laboratories to ensure they provide the desired properties. Moreover our global manufacturing footprint, our experienced technical support teams and our extended network of distributors ensure close proximity with our customers.



## Strength in bonding

The Araldite® adhesives range for assembly operations contains a selection of adhesives from the latest epoxy, polyurethane and methacrylate technologies to meet the great majority of high-performance bonding applications.

### Araldite® adhesives range for assembly operations

From adhesives with long open times for large area applications to fast-curing adhesives for early removal from fixtures and rapid through-put, this range includes adhesives which are resistant to high temperature, water and chemicals. Liquid adhesives as well as thixotropic adhesives for gap-filling or vertical applications can be found in this range. Adhesives with highest strength can be selected from this range as well as tough and impact-resistant adhesives with a well-balanced combination of strength and flexibility and also elastic adhesives to cope with different thermal expansions when bonding larger structures of dissimilar materials.

Products from the Araldite® adhesives range for assembly operations are available in a variety of packaging including easy-to-use cartridges with static mixers and working packs for manual applications as well as hobbocks and drums for higher volume applications. The Araldite® adhesives range for assembly operations will continuously be updated to meet the newest demands of innovative design using the bonding technology.



### Epoxies

#### 1-C epoxy adhesives

- > excellent adhesion to metals, thermoset and thermoplastic composites
- > outstanding lap shear strength and peel strength
- > high fatigue resistance
- > very high impact resistance
- > excellent chemical resistance
- > easy processing

#### 2-C epoxy adhesives

- > excellent adhesion to metals and thermoset composites
- > high strength and high stiffness
- > high creep resistance
- > high fatigue resistance
- > high temperature resistance (adhesive specific up to 210°C)
- > excellent chemical resistance
- > low shrinkage

### Methacrylates

#### 2-C methyl methacrylate adhesives

- > 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

#### No-mix methyl methacrylate adhesives

- > long open-time and rapid cure
- > good adhesion with minimum surface preparation
- > high process flexibility
- > suitable for high production speed
- > high toughness
- > good long-term durability

### Polyurethanes

#### 2-C polyurethane adhesive

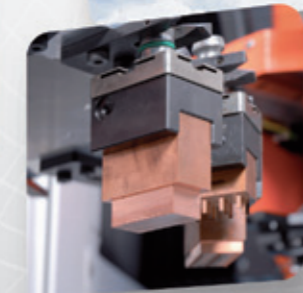
- > excellent adhesion to most thermoplastics and composite materials
- > good adhesion to metals
- > mechanical properties from rigid to flexible
- > good long-term durability
- > good combination of strength and flexibility

# Araldite®

## Reliable and comprehensive bonding solutions

The Araldite® adhesives range offers high performance bonding solutions for a wide variety of applications in assembly operations and maintenance. Our products have been designed to meet the key requirements of many industry sectors.

- > **Electrical engineering and electronics**
- > **Filter manufacturing**
- > **Heating, ventilating, air conditioning**
- > **Machineries**
- > **Marine**
- > **Medical**
- > **On-site and off-site construction**
- > **Pipes and tanks**
- > **Renewable energies**
- > **Sign and display**
- > **Sport and leisure**
- > **Transportation**
- > **White goods**

















# We value your challenge

By providing unique, certified or patented technologies, combined with high quality and reliability, our chemists and experts bring enhanced value to our customers, ensuring their success.

## With innovation

Every day, all over the world, our Technical Competence centers 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 (eg REACH 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 intimacy

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 trainings
- > technical service and solution-providing

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

## Huntsman Advanced Materials

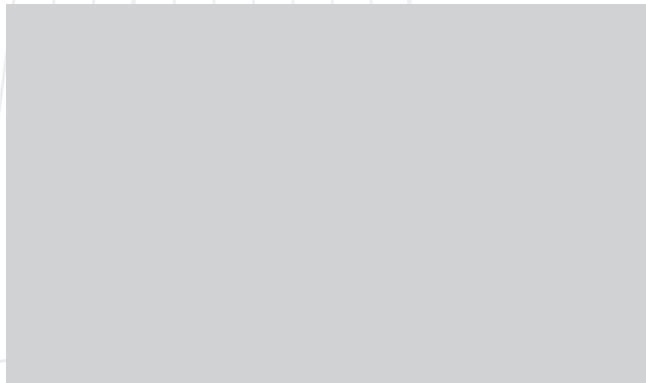
Our Advanced Materials division is a leading global chemical solutions provider with a long heritage of pioneering technologically advanced epoxy, acrylic and polyurethane-based polymer products.

Our capabilities in high-performance adhesives and composites, delivered by more than 1 600 associates, serve over 2 000 global customers with innovative, tailor-made solutions and more than 1 500 products which address global engineering challenges.

## Global presence – 13 manufacturing sites



## Distributed by



## Find the right adhesive to fulfill your needs



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



# HUNTSMAN

Enriching lives through innovation

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