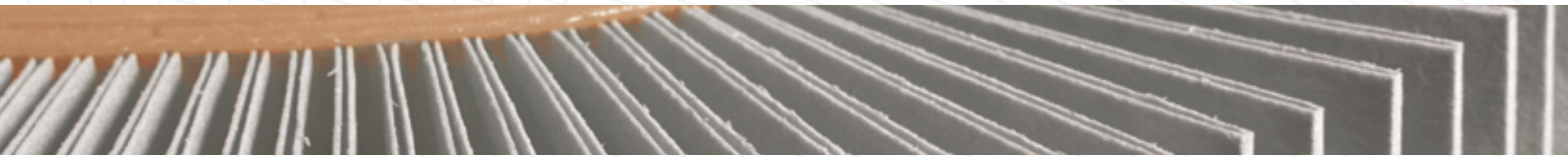
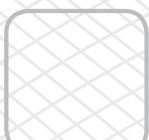
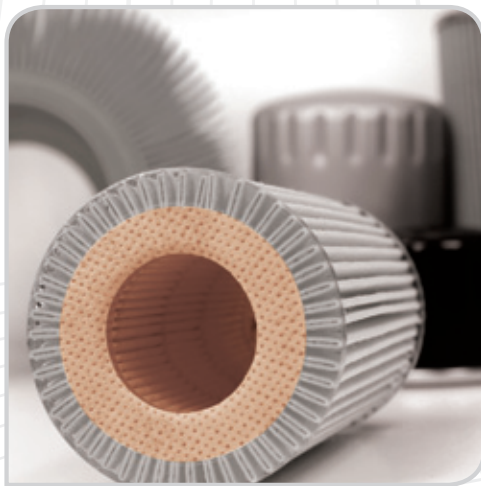


# Araldite® structural adhesives

Reliable bonding solutions for high performance filters



A comprehensive range of one-component and two-component epoxy and polyurethane adhesives used by the leading international filter manufacturers as the adhesive of choice for more than 25 years.



## Applications in high performance filters

Araldite® adhesives are used for seam sealing and stabilizing pleats in filtration media as well as potting end-caps or frames to filter pleats. They can be used for:

- > Oil / fuel filters
- > Hydraulic filters
- > Chemical filters
- > Air filters
- > Sieves and screens

## Key features

- > Good gap filling and sag-resistance with minimal shrinkage
- > High adhesion to a variety of surfaces at room temperature and high temperature
- > Withstand exposure to aggressive chemicals, vibration and other demanding operating environments
- > Suitable for use in changing temperatures and humidity
- > Suitable for automated dispensing

## Your benefits

- > A wide product portfolio to meet your specific processing and performance requirements
- > Cost effective solutions designed for an improved durability of filters
- > A worldwide network of experienced technical support staff
- > Local supply and service available globally

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Reliable bonding solutions for high performance filters

## Typical thermal and mechanical performance

| Product designation                    | Technology | Colour     | Mix ratio        | Pot life | Viscosity         | Cure time                         | Tensile modulus | Elongation at break | Chemical resistance | Temperature resistance |
|--|------------|------------|------------------|----------|-------------------|-----------------------------------|-----------------|---------------------|---------------------|------------------------|
| Unit                                   |            |            | v/v / w/w        | min      | Pa.s              |                                   | MPa             | %                   |                     |                        |
| Araldite® AV 138 M-1 / Hardener HV 998 | 2K Epoxy   | Grey       | 100:40<br>100:40 | 35       | Thixotropic paste | 10 min at 100°C<br>or 24h at RT   | 4500            | 1                   | Very good           | Very good              |
| Araldite® AW 139-1 / Hardener HW 5323  | 2K Epoxy   | Dark grey  | 100:50<br>100:50 | 60       | Thixotropic paste | 5 min at 100°C<br>or 12h at RT    | 4000            | 1                   | Very good           | Very good              |
| Araldite® AW 4752 / Hardener HW 4753   | 2K Epoxy   | Dark grey  | 100:50<br>100:47 | 40       | 25                | 20 min at 100°C<br>or 24h at RT   | 5500            | 1                   | Good                | Good                   |
| Araldite® AY 105-1 / Hardener HY 991   | 2K Epoxy   | Amber      | 100:60<br>100:50 | 45       | 15                | 20 min at 100°C<br>or 24h at RT   | 1600            | 1                   | Good                | Very good              |
| XB 5090-1 polyol / XD 4782 isocyanate  | 2K PU      | Beige      | 100:25<br>100:20 | 90       | 4                 | 20 min at 100°C<br>or 24h at RT   | 30              | 40                  | Moderate            | Moderate               |
| XD 4567 / XD 4568                      | 2K Epoxy   | Light grey | 100:31<br>100:25 | 4        | 20                | 30 min at 60°C<br>or 24h at RT    | 1300            | 4                   | Good                | Good                   |
| XW 951-2                               | 1K Epoxy   | Grey       | na               | na       | Thixotropic paste | 20 min at 160°C<br>or 1h at 120°C | TBD             | TBD                 | Very good           | Very good              |

## Typical stabilities and benefits

| Product designation                    | Oil (light) | Hydraulic oil | Water | Air | Chemicals | Sieves / screens | Key benefits  |
|--|-------------|---------------|-------|-----|-----------|------------------|---|
| Araldite® AV 138 M-1 / Hardener HV 998 | ••          | ••            | •     | •   | ••        | ••               | Excellent chemical resistance, temperature resistant to 120°C, thixotropic.   |
| Araldite® AW 139-1 / Hardener HW 5323  | ••          | ••            | •     | •   | ••        | ••               | High temperature resistance (up to 140°C), low shrinkage, very resistant to water and many chemicals, thixotropic.  |
| Araldite® AW 4752 / Hardener HW 4753   | ••          | ••            | •     | •   | ••        | ••               | Excellent chemical resistance, temperature resistant (up to 100°C), gap filling paste with controlled flow.         |
| Araldite® AY 105-1 / Hardener HY 991   | ••          | •             | ••    | ••  | ••        | •                | Low viscosity self levelling liquid, temperature resistant (up to >100°C), excellent water and chemical resistance. |
| XB 5090-1 polyol / XD 4782 isocyanate  | ••          | •             | ••    | ••  | ••        | •                | Low viscosity self levelling liquid, good chemical and environmental resistance, long pot life.                     |
| XD 4567 / XD 4568                      | ••          | ••            | •     | •   | ••        | •                | Low viscosity self levelling liquid, good chemical resistance, fast gelling.  |
| XW 951-2                               | ••          | ••            | ••    | ••  | ••        | •                | 1-component heat curing adhesive, high temperature and chemical resistance, thixotropic.                            |

•• Recommended | • Suitable

Learn more on [www.huntsman.com/advanced\\_materials](http://www.huntsman.com/advanced_materials)

For any other information, please send an e-mail to [advanced\\_materials@huntsman.com](mailto:advanced_materials@huntsman.com)

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