YOUR BENEFITS

- Everywhere - DYHARD® products with the consistent quality all over the world
- Integrated management system in line with the Responsible Care guidelines
- Full & immediate technical service with individual consulting / support
- Global presence through AlzChem’s international sales network
- Your strong partner for innovative products and solutions
- Supply security through 3 identical production lines
- Backward integration in NCN-chemistry production
- High quality product standards - Made in Germany
- Instant product availability all over the world
- Custom, tailor made products and solutions
- More than 100 years of experience
- Technical service hotline
- Reliability - our strength

## PRODUCTS

### Edition: 2018 (This publication supersedes all previous publications for this product.)

- We do not assume liability for such information or advice, including the suitability of such information or advice for a particular application or the content to which such information or advice may relate to third parties intellectual property rights or to laws and agreements. It is the sole responsibility of the customer to ensure for concerning products to be inspected and tested by qualified experts.

- This publication supersedes all previous publications for this product.

### CONTACT

AlzChem Treffling GmbH
Do Kehrbaumschule 32
84140 Treffling, Austria
T +43 (0) 2621 86-2000
F +43 (0) 2621 86-20020
info@alzchem.com

AlzChem LLC
649 Church, South Building 4B0
Mansfield, MA 02048, USA
T +1 781 656 5133
F +1 781 656 5139
alzchem@alzchem.com

### WEB

www.alzchem.com

### YOUR BENEFITS

- Everywhere - DYHARD® products with the consistent quality all over the world
- Integrated management system in line with the Responsible Care guidelines
- Full & immediate technical service with individual consulting / support
- Global presence through AlzChem’s international sales network
- Your strong partner for innovative products and solutions
- Supply security through 3 identical production lines
- Backward integration in NCN-chemistry production
- High quality product standards - Made in Germany
- Instant product availability all over the world
- Custom, tailor made products and solutions
- More than 100 years of experience
- Technical service hotline
- Reliability - our strength

## PRODUCTS

### Edition: 2018 (This publication supersedes all previous publications for this product.)

- We do not assume liability for such information or advice, including the suitability of such information or advice for a particular application or the content to which such information or advice may relate to third parties intellectual property rights or to laws and agreements. It is the sole responsibility of the customer to ensure for concerning products to be inspected and tested by qualified experts.

- This publication supersedes all previous publications for this product.

### CONTACT

AlzChem Treffling GmbH
Do Kehrbaumschule 32
84140 Treffling, Austria
T +43 (0) 2621 86-2000
F +43 (0) 2621 86-20020
info@alzchem.com

AlzChem LLC
649 Church, South Building 4B0
Mansfield, MA 02048, USA
T +1 781 656 5133
F +1 781 656 5139
alzchem@alzchem.com

### WEB

www.alzchem.com

Your benefits.

Everywhere - DYHARD® products with the consistent quality all over the world.
- Integrated management system in line with the Responsible Care guidelines.
- Full & immediate technical service with individual consulting / support.
- Global presence through AlzChem’s international sales network.
- Your strong partner for innovative products and solutions.
- Supply security through 3 identical production lines.
- Backward integration in NCN-chemistry production.
- High quality product standards - Made in Germany.
- Instant product availability all over the world.
- Custom, tailor made products and solutions.
- More than 100 years of experience.
- Technical service hotline.
- Reliability - our strength.
DYHARD® is the brand name for high-performance cross-linkers based on dicyandiamide curing agents, imidazole accelerators, master batches and latent liquid cross-linkers.

DYHARD® products are used in the adhesives, powder coating and, in particular, in the composite materials industry. The DYHARD® curing agents and accelerators enable the production of high performance parts for critical end-uses in a safe and economical manner.

DYHARD® cross-linkers are widely used in the automotive and aviation industry and in wind power plants. They are also used in the electronic industry for the manufacturing of sports equipment. Furthermore they are finding use in epoxy and hybrid powder coatings.

DYHARD® CU-Line
DICYANDIAMIDE BASED CURING AGENTS
- Extraordinary long latency
- Perfectly designed from -100°C up to 80°C, dp 6 µm
- Very flexible, no impact pressure, no crystallization, no hygroscopic, no skin irritation
- Highly cross-linked networks
- Ideal for prepregs, adhesives, powder coatings, laminates and casting systems
- Low shrinkage

DYHARD® CAT-Line
URON ACCELERATORS
- Ideal to accelerator DYHARD® Curing Agents
- Excellent post-curing formulation
- Act as low intensity accelerators
- Very good balance of reactivity and latency
- Low toxicity
- Perfect fit for prepregs, adhesives and casting systems

IMIDAZOLE ACCELERATORS
- Highly reactive in epoxy formulations
- Medium shelf life in epoxy formulations
- Very effective in adhesion
- Very economical
- Highly recommended for powder coatings and laminates

DYHARD® MB-Line
MASTER BATCHES OF CURING AGENTS OR ACCELERATORS IN STANDARD EPOXY RESIN
- Excellently pre-dispersed powders in standard BPA-epoxy resin
- Dust-free and easy dosing
- Same reactivity and latency as corresponding amount of curing agent or accelerator type

IMIDAZOLE ACCELERATORS
- Highly reactive in epoxy formulations
- Medium shelf life in epoxy formulations
- Very effective in adhesion
- Very economical
- Highly recommended for powder coatings and laminates

DYHARD® PM-Line
PREMIXES OF CURING AGENTS OR ACCELERATORS IN STANDARD EPOXY RESIN
- Formulated cure system for special applications
- Reduced material and handling waste
- Excellent handling and reduced risk of misfilling in production

DYHARD® Li-Line
LATTENT LIQUID CURING AGENTS
- Lower formulation viscosity
- Improved fiber wetting
- Long latency up to several weeks
- Excellent electrical properties
- Cosmetic prepregs without white-wash or white-spots

DYHARD® SYS-Line
SYSTEMS OF FORMULATED EPOXY RESIN + CURING AGENT
- Special system for dedicated market segment or application technology e.g.
  - Filament Winding
  - Robotic Transfer Molding