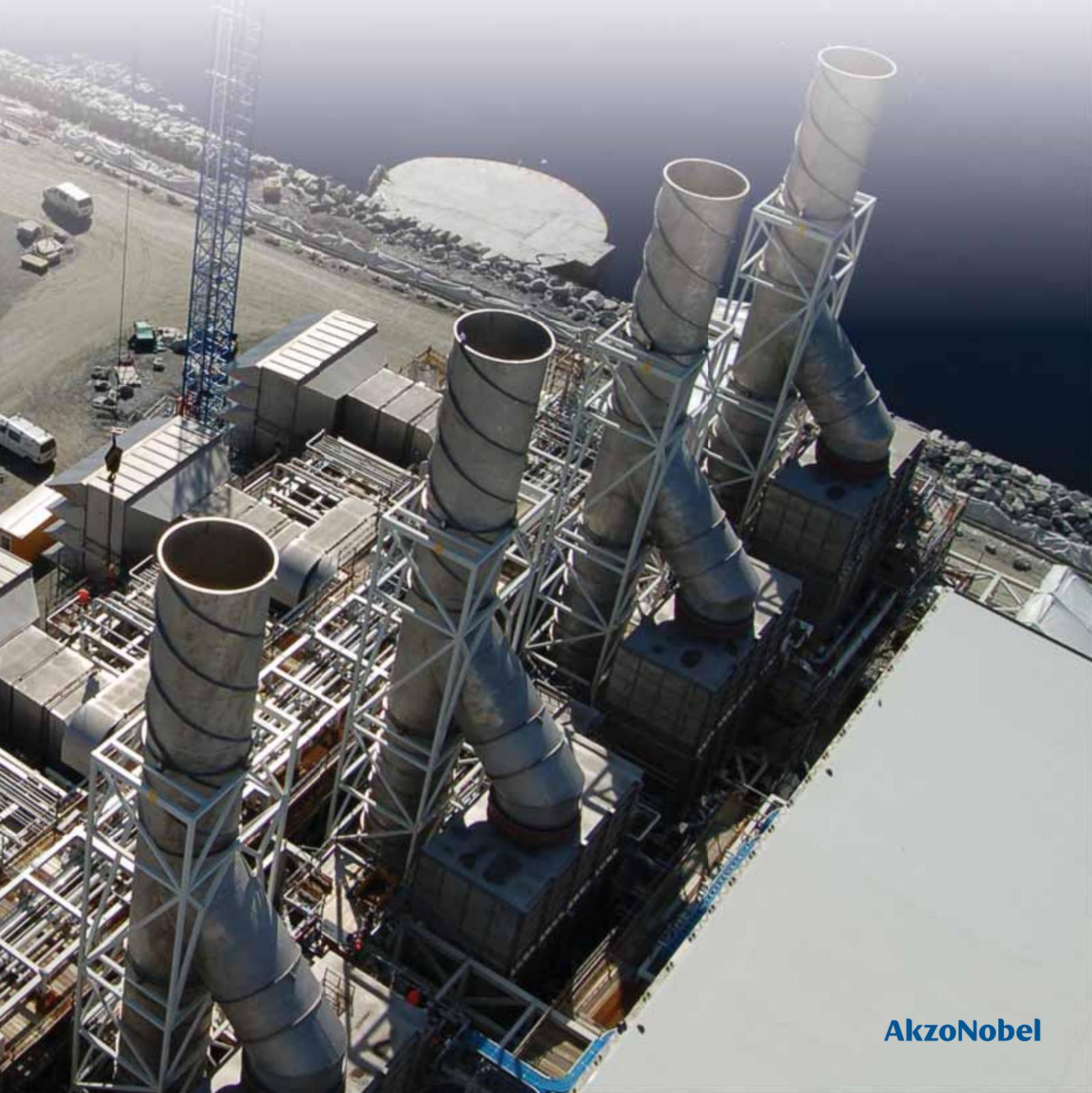


Temperature Resistant Coatings

Asset protection from -196°C to 650°C



Protecting assets from -196°C to 650°C

Temperature resistant coatings are a group of products specially formulated to operate outside the normal temperature ranges most conventional coatings can withstand. From -196°C (-321°F) to 650°C (1,202°F) our complete range of temperature resistant coatings provide long term corrosion protection to both carbon and stainless steels.

Temperature resistant coatings are used widely on many oil, gas and chemical processing facilities as well as many power generation installations. They also fulfil niche requirements on numerous other heavy industry sites. Typical equipment operating at elevated temperatures includes:

- Pipework and piping accessories
- Valves
- Vessels
- Stacks



Why are they important?

Although there is low risk of corrosion above the boiling point of water, few pieces of equipment will spend their entire service life operating at very high temperatures. Regular production cycles, scheduled outages, pre start up, shipping and storage will all present a significant risk of corrosion to equipment. As a result the need for effective elevated temperature coatings becomes extremely important.



Important factors when specifying a temperature resistant coating

When selecting an appropriate temperature resistant coating the following three points should always be considered:

What is the maximum temperature the steel will be operating at?

Will the equipment be insulated?

Will the equipment be operating at cyclic or constant temperatures?

| Product | Description | Maximum temperature resistance | CUI protection | Cyclic temperature resistance |
|----------------------|---|--------------------------------|----------------|-------------------------------|
| Interbond® | | | | |
| Interbond® 1202UPC | Universal pipe coating (UPC) based upon titanium modified inorganic copolymer (TMIC) technology | 650°C (1,202°F) | ✓ | ✓ |
| Intertherm® | | | | |
| Intertherm® 50 | Single component, heat resistant silicone aluminium coating | 540°C (1,004°F) | | |
| Intertherm® 751CSA | Maintenance coating based upon titanium modified inorganic copolymer (TMIC) technology | 400°C (752°F) | ✓ | ✓ |
| Intertherm® 715 | Temperature indicating coating based upon modified silicone resin for identification of hot spots | 350°C (662°F) | | |
| Intertherm® 875 | Temperature resistant finish available in a wide range of colours | 260°C (500°F) | | |
| Intertherm® 228 | Highly cross-linked epoxy phenolic coating | 230°C (446°F) | ✓ | ✓ |
| Interzinc® | | | | |
| Interzinc® 22 series | Range of inorganic zinc silicate coatings offering excellent corrosion protection | 400°C (752°F) | | ✓ |
| Interplus® | | | | |
| Interplus® 256 | High build, aluminium pigmented surface tolerant epoxy | 150°C (302°F) | ✓ | ✓ |

Find out more at our temperature resistant internet area



Corrosion Under Insulation (CUI)

CUI occurs due to water ingress through an insulation system, creating a highly corrosive environment against the underlying steelwork.

Any subsequent corrosion of the substrate is not visible and if it goes unrecognized can lead to catastrophic failure. The use of specialist protective coatings has been shown to be very effective in protecting against CUI and forms a valuable part of any CUI mitigation strategy.



Our temperature resistant range is pushed to the limits at our specialist testing facility in the UK



Extensive testing

High temperature stoving, accelerated anticorrosion and cryogenic immersion testing are just some of the methods employed to give absolute piece of mind when it comes to performance expectations. We also routinely complete third party witnessed testing programs at our onsite ISO 9001 accredited laboratories.

Leading the industry

Pushing the boundaries of new and existing technology is something we do every day and our continued commitment to test method development is a valuable part of this. We publish widely upon the methods we develop and where relevant provide input into the development of industry standards.

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