



armacell®

MAKING A DIFFERENCE AROUND THE WORLD

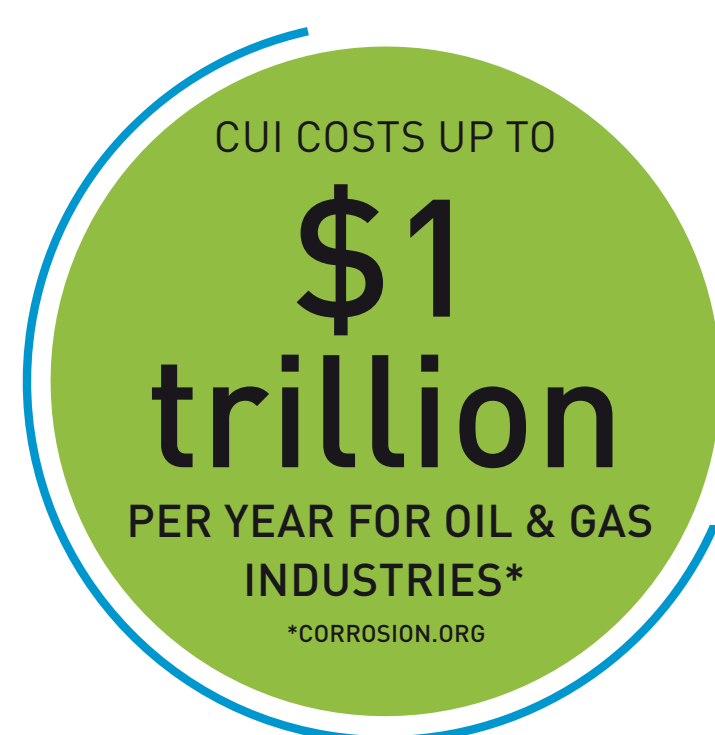
CORROSION UNDER INSULATION (CUI)

Discover more about resistance to water vapor ingress in a high humidity environment.

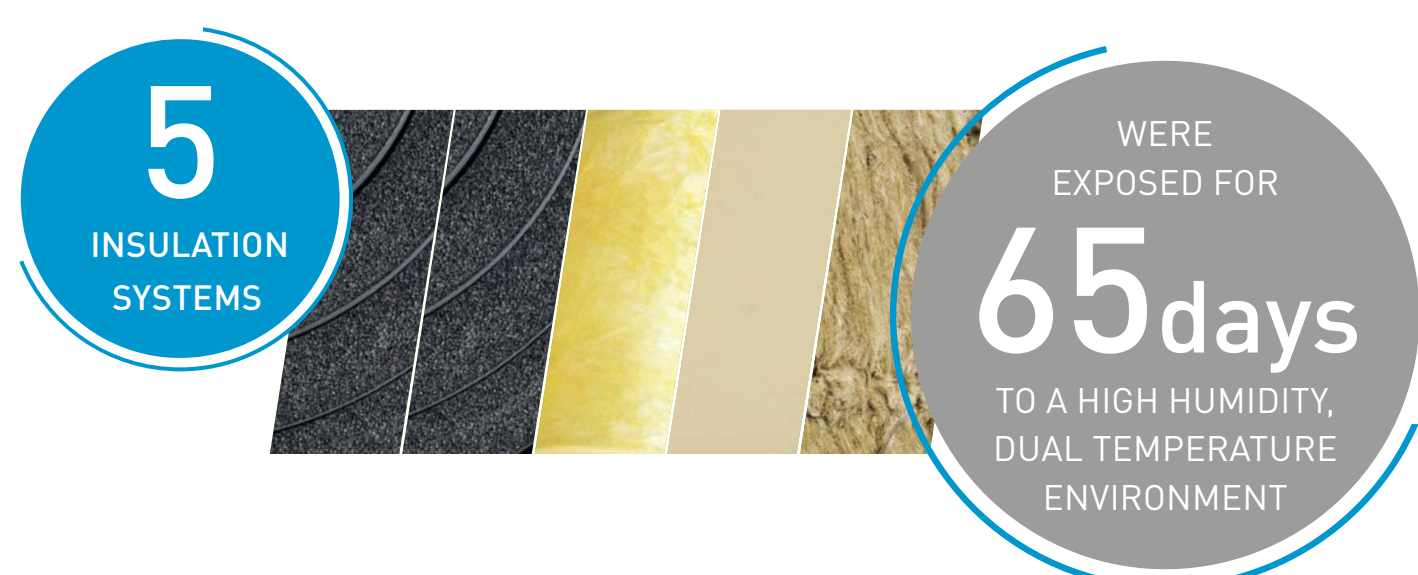
// The trillion-dollar problem

CUI Corrosion under insulation can cause catastrophic failure of equipment and prolonged downtime.

Did you know that 40 to 60% of pipe maintenance spend is down to CUI?

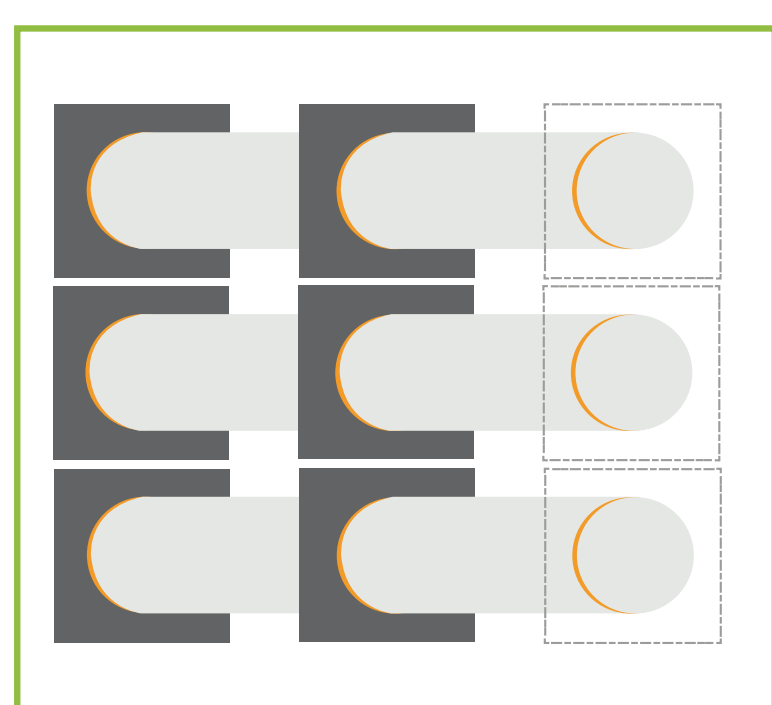


// Exploring the best insulation solution

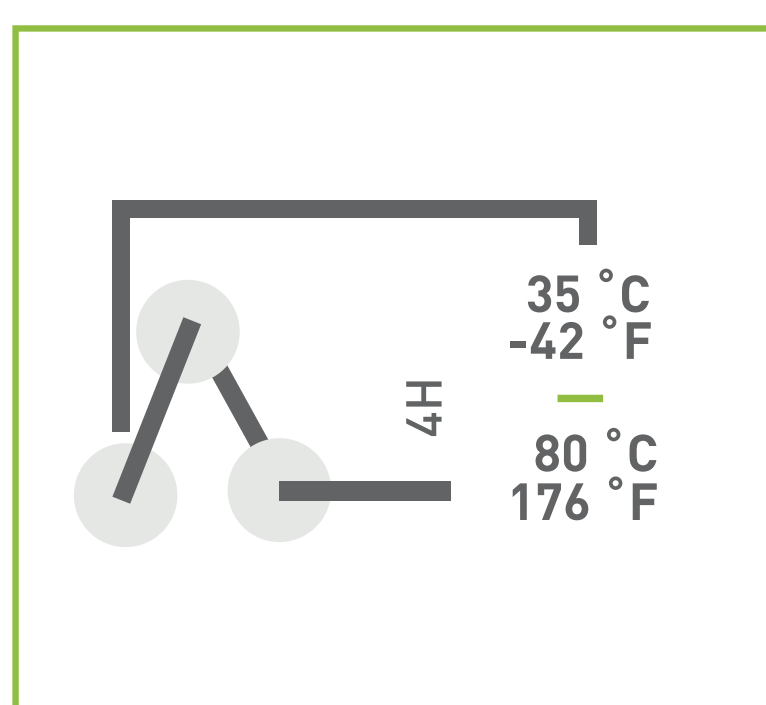


Recognised corrosion experts **InnCoa** independently tested the systems capability to mitigate corrosion.

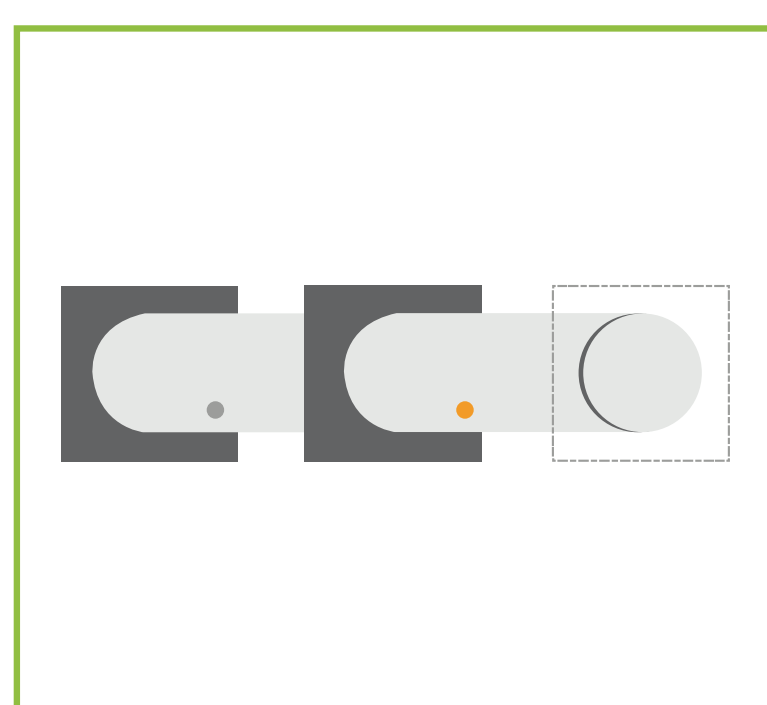
// The rigorous test by InnCoa



3 pipes of 2 sections each, with insulation assembled

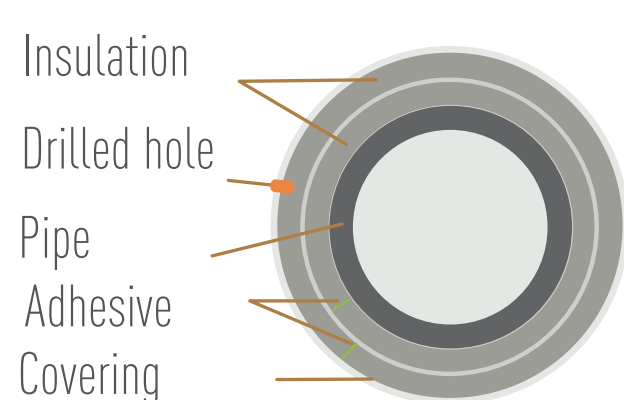


Pipes were installed in series with an air circulator



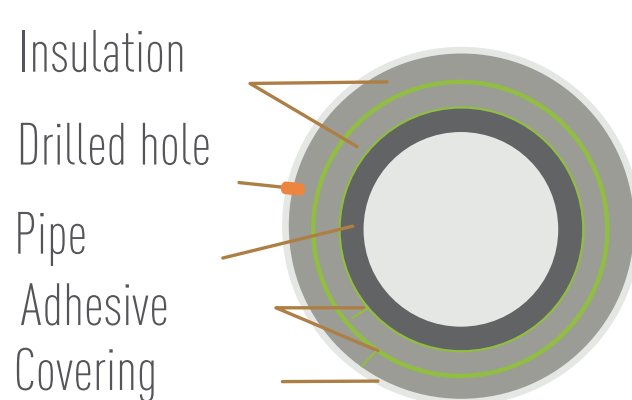
5 mm holes were punched into the insulation, simulating failure mode

SAMPLE A ArmaFlex®



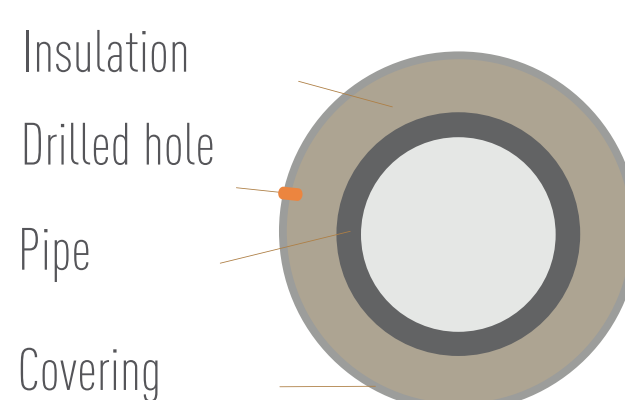
Adhesive between seams, overlaps and Arma-Chek® R covering

SAMPLE B ArmaFlex® with all-over-adhesion



All-over adhesion between layers and at pipe surface. Arma-Chek® R covering

SAMPLES C, D, E Glass Fibre, Polyurethane, Stone Wool

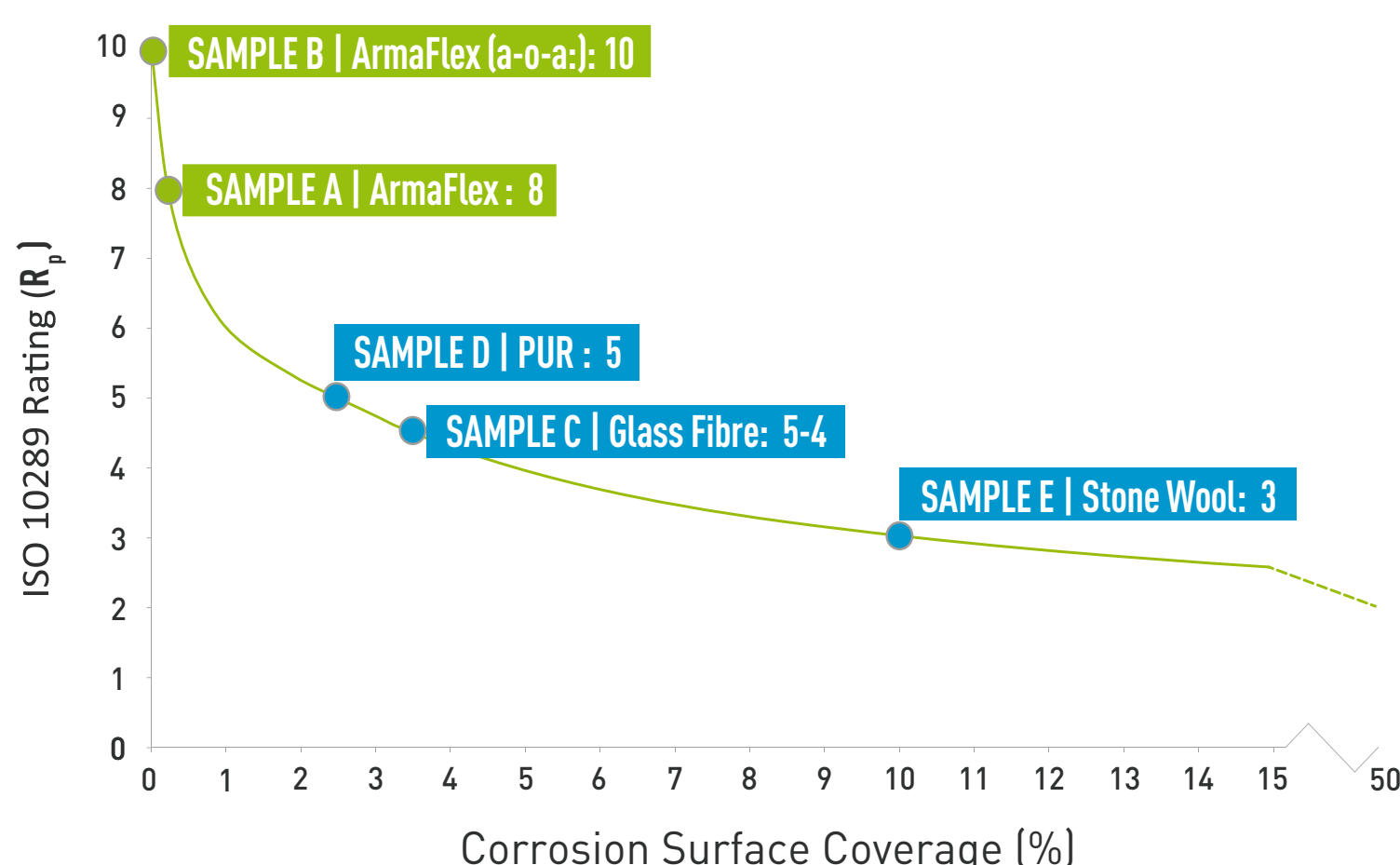


Aluminium sleeve and tape

// Surface area corrosion: test results

After 65 days, corrosion was measured and rated according to ISO 10289.

A value of R_p10 is the best rating, with 0% corrosion on the surface area.



InnCoa says, "Sample B, with the ArmaFlex System, is very tolerant against small defects and shows superior properties in protection against corrosion under insulation"

// For more information:
www.armacell.com/oilandgas/cui

