

Insulation

The Best in Safety, Expertise & Efficiency

Brand Energy & Infrastructure Services (BRAND®) origins are rooted in insulation and thermal protection services - offering clients more than 100 years of insulation experience. In that time, we have evolved into a leading specialty services organization, delivering the highest quality EHS performance, skilled crafts personnel, reduced overhead and a single point of project ownership. Our flexible pricing and detailed estimating tools ensure schedule and budget compliance.

BRAND's team encompasses highly skilled personnel, including 40,000 specialty crafts personnel across the world. Our comprehensive training programs ensure that we provide the most skilled professionals in the industry, while utilizing our proven quality systems program.

Industrial Insulation Service Offerings

- › Managed maintenance programs
- › Off-site shop facilities
- › Turnaround/outage, capital project and maintenance services
- › Corrosion under insulation (CUI) programs
- › Demolition/installation
- › Heat loss appraisals and high temperature systems
- › Hot/cold protection and personnel protection
- › Inspection and cladding/jacketing for boilers, ducting, piping and equipment
- › Cryogenic, acoustic and heat conservation systems
- › Standing seam panels for coke drums and tanks
- › Aerogel flexible blankets and removable insulation blankets
- › Soundproofing and weatherproofing metal jacketing

Our premium quality insulation materials include:

- › Fibreglass
- › Calcium silicate
- › Foamglass
- › Mineral wool
- › Perlite
- › Urethane
- › Trymer
- › Elastomeric
- › Polyethylene



**more safety
more productivity**

Insulation Services

The BRAND® advantage

BRAND's years' of experience in the disassembly, reassembly and renewal of industrial insulation pipes, vessels, tank walls and specials, have helped clients on some of the world's largest new construction, renovation and maintenance shutdown projects.

BRAND offers the following expert insulation services:



Installation

New thermal mechanical piping and equipment insulation is installed to achieve the following desired results: corrosion prevention, process heat conservation (reduce heat gain/loss), personnel protection, humidity control (condensation), freeze protection, HVAC applications, fireproofing and acoustical control (noise reduction). There are five major categories of insulation that can be applied: flake, fibrous, granular, cellular and reflective. The type of insulation is selected based upon the specific requirements of each project.

Demolition

Existing insulation that does not meet its physical requirements or thermal capabilities must be removed in preparation for new construction projects, turnarounds, maintenance or for newly designed insulation systems.

Heat Loss Appraisal

Heat loss appraisals are conducted on piping and equipment to determine the proper insulation solution. Certified insulation energy appraisers evaluate design objectives, the equipment to be insulated, the location and

conditions of the service area and the materials and systems that are available. The National Insulation Association's (NIA) 3E Plus insulation program, Heat Loss Surveys and the Mechanical Insulation Design Guide (MIDG) are tools used in the appraisal process.

Extreme Temperature Insulation Systems

Extreme temperature operating environments require the use of specialized insulation systems. Cryogenic piping and equipment temperatures range from -150 °F to -459 °F (absolute zero). Extremely high temperature piping or equipment temperatures range from 800 °F to 2,000+ °F. Insulation applied on these areas is generally thicker than the insulation applied in normal operating temperatures. The appropriate thickness and composition is determined by the diameter of the piping or the size of the equipment that is being insulated.

Removable Covers

Soft and hard removable covers are specifically designed for irregular surface equipment such as: pumps, equipment supports, turbines and valves. Custom covers are fabricated

and installed to achieve desirable thermal performance, ambient conditions and, most importantly, to ensure compatibility with process and operating temperatures. Flexible insulation blankets and pads with high temperature fabric covers and hard covers formed and shaped with various kinds of metal jacketing are the two most common types of removable covers.

Weather Proofing

Insulation systems should be protected from the environment and any physical abuse at all times. The following types of weather proofing jacketing materials are used to secure installed insulation systems: stainless steel jacketing, aluminum jacketing, tedlar jacketing, laminated jacketing, galvanized metal, PVC jacketing, fiberglass jacketing, acoustical jacketing, ASJ (All Service Jacketing), weather barriers (mastics) and vapor retarder.

> best in class safety performance

> specialty team of ~40,000 People

> 30,000+ customers ... and growing

> ~340 locations in 25 Countries

> revenues of nearly ~\$5b

> assets & equipment worth ~\$4.2b

Why BrandSafway?

Unique combination of expertise & resources

We are part of **BrandSafway**, a leading global provider of access, specialised services and forming & shoring solutions to the industrial, commercial and infrastructure end markets. With more than 340 branches all over the world, we provide support for ongoing maintenance as well as for refurbishment needs and new construction plans.

As one strong team, we support our customers:

- > **Brand Energy & Infrastructure Services** is one of the world's largest industrial services specialists;
- > **Brand Access Solutions** is the UK's largest full-service provider of scaffolding and access systems;
- > **Hünnebeck** stands for safe and highly efficient formwork, scaffolding and safety technology.



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