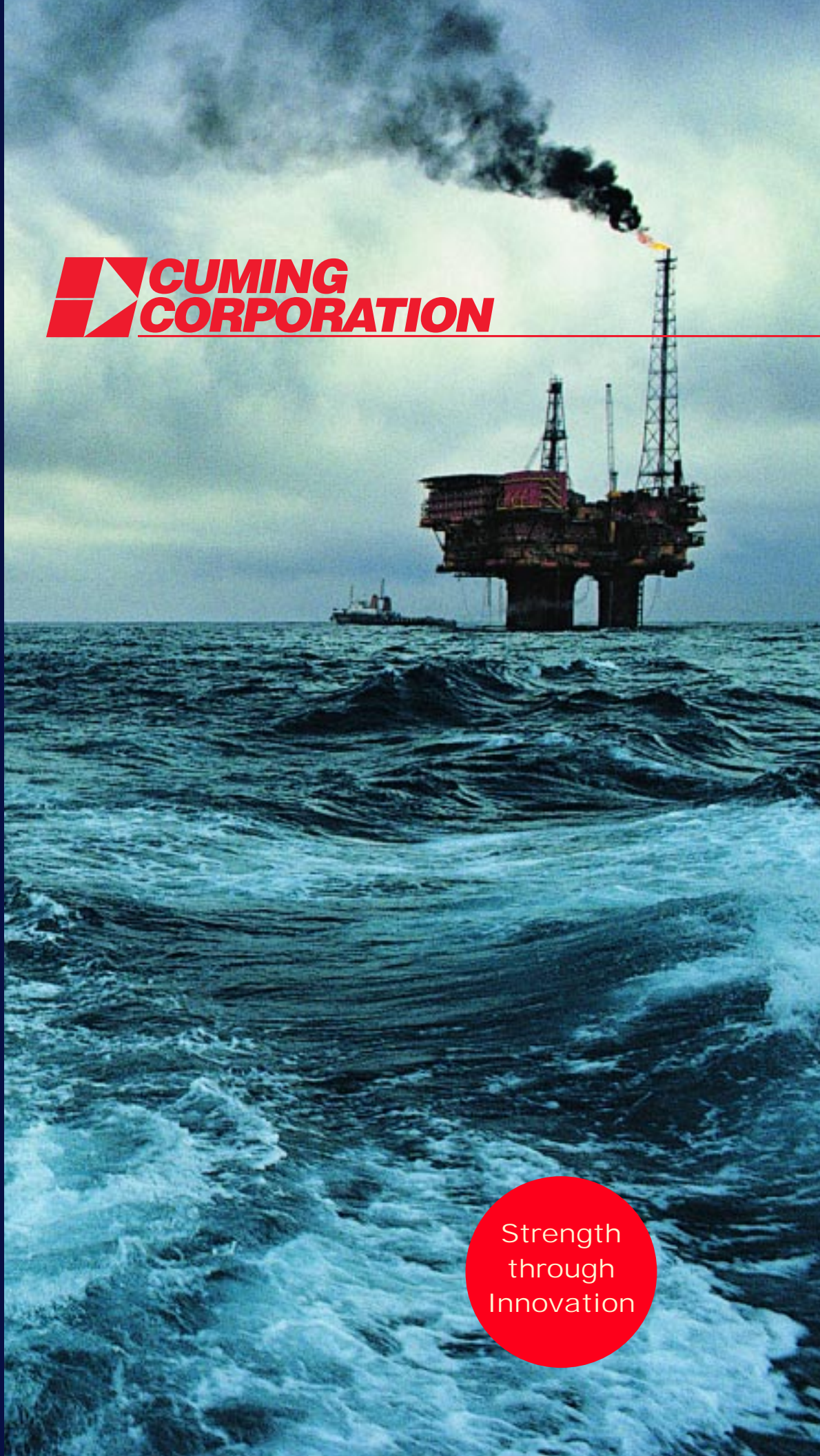


INSULATION  
PRODUCTS



Strength  
through  
Innovation

## THE BEST PRODUCTS

Cuming Corporation's *C-THERM* line of syntactic foam deepsea thermal insulation materials are the most widely accepted products of their kind in the offshore oil industry. No other insulation material comes close to matching the depth and temperature capabilities of *C-THERM*, nor has the versatility for every kind of subsea application.

From risers and flow-lines to trees, jumpers, and manifolds, *C-THERM* sets the industry standard for dependable performance. With Cuming Corporation, customers have the assurance of working with the world's most experienced syntactic foam engineers to protect offshore oil wells against cooldown and crippling blockage.

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*C-THERM* insulated pipe meets tough qualification standards for thermal efficiency and strength.



The New Iberia plant accommodates pipe joints of up to 80 feet in length and weight to three tons.

## FACTORIES AND EQUIPMENT

Cuming Corporation designed and outfitted its Massachusetts and Louisiana factories expressly to manufacture state-of-the-art syntactic foam and composite materials. Custom-engineered machinery and patented production processes generate products with properties unique to the industry. Large-scale production capacity enables on-time delivery of even the largest offshore projects. The Cuming Corporation tradition of close coordination between laboratory and factory means new products move quickly from initial development to manufacture and final installation.

## SERVICE AND SUPPORT

With the most experienced offshore production staff in the materials industry, Cuming Corporation offers the best customer service and support. Factory-trained teams are ready on short notice to install *C-THERM* products on subsea equipment at the water's edge. Knowledgeable sales engineers, located conveniently around the world, assist customers in selecting the product best suited for their needs or creating new products on demand. An ongoing development program continually tests and improves *C-THERM* materials to assure users of having the best materials available.



Services include a variety of corrosion coating systems and accessories such as field joints, anodes, bolsters, and barging.

### SMALL COVER PHOTOS

Top and bottom photo: *C-THERM* insulated pipe provides flow assurance to major deepwater projects.

Middle photo: "Precision strength" composite products protect wells from pressure surges.



This custom-built simulated service vessel tests new material formulations for hydrostatic integrity.

## RESEARCH AND DEVELOPMENT

Cuming Corporation pioneered the development of syntactic foam subsea insulation, and the number of “firsts” is impressive. Years of laboratory work and field experience have created a succession of new materials, new processes, and new ways of validating long-term performance. *C-THERM* products are the most comprehensively proven insulation systems in the industry, with a growing list of successful applications. More and more customers are turning to *C-THERM* products for their multifunctional advantages in solving the most difficult offshore thermal management problems.

## A PRODUCT FOR EVERY NEED

*C-THERM* products are available in a wide range of materials systems engineered to meet specific subsea challenges. A unique, patented cast-on-pipe process applies syntactic foam directly to production risers, SCRs, flowlines, and other tubulars for the ultimate in high efficiency cost-effective insulation. Cuming Corporation makes pre-cast shapes in a variety of materials for easy installation. Pour-in-place and pack-in-place materials set the standard for versatility and convenience in field insulation of trees, jumpers, and manifolds. *C-THERM* is available in service temperatures rated to 150°C (300°F) and depths to 3000m (10,000ft.). Multifunctional materials offer tailored combinations of precision strength, corrosion protection, buoyancy, and both thermal and electrical isolation.



*C-THERM* insulation protects all types of subsea connections, such as these *Shell Bonga* trees.

## AN UNMATCHED TRACK RECORD

Over the years, Cuming Corporation has become well known as a source of innovative products and imaginative solutions to problems. Major oil companies and offshore operators routinely turn to us for solutions they simply cannot find elsewhere. For example, one customer needed “precision strength” composites to protect the casing string of an ultradeep, superhot well. Another wanted a highly efficient insulation system that was lightweight, yet strong enough for great depth. Yet another wanted electrical isolation with extreme adhesion, while others needed specific combinations of stiffness, damping, and vortex-shedding capabilities. *C-THERM* came though every time. If you want the best for your offshore project, give Cuming Corporation a call.



“Precision strength” syntactic foam has received industry recognition for engineering excellence in protecting highly pressurized well casings.

CUSTOMER AND  
PROJECT  
REFERENCE LIST  
(Alphabetical Order)

Customers	Projects
ABB Vetco Gray	Abo
Amerada Hess	Allegheny
Anadarko Petroleum	Aspen
BP America	Bonga
Cameron	Boris
Coflexip	Ceiba
Cross Logistics	Conger
Dolphin Services	Crosby
ExxonMobil	Europa
Global Industries	Garden Banks
Houma Industries	Habanero
Hydrotech	King
IFP/Ifremer	King West
Kellogg Brown & Root	King's Peak
Kerr McGee	Kizomba
Marathon Oil	Llano
Mentor Subsea	Macaroni
New Offshore	Morpert
Oceaneering	NaKika
Oil States	Nansen
Omega	Nexen
Porter Services	Okume
Shell Oil Company	Paloma
Stress Engineering	Pardner
Technip	Penn Central
TotalFinaElf	Prince
Wellstream	Zia



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