ApplicationBrief

Chemical Processing Industry

APPLICATION
Rotational lining of metal structures

PRIMARY USE
Provides unmatched corrosion protection for

- Tanks, pressure vessels, scrubbers, pipe spool and fittings exposed to aggressive, corrosive chemicals
- Caissons and other equipment exposed to seawater
- Pumps, valves, flowmeters, heat exchangers, filter housings and other process equipment

MATERIALS
PFA, ETFE, PVDF, ECTFE, nylon 12, HDPE

TECHNICAL DATA
Maximum dimensions:

- 8′ diameter x 20′ length
- 10′ diameter x 12′ length

Part geometries: Simple to complex, including parts with diameter changes, multiple outlets, nozzles or other requirements

Wall thickness of lining: 0.090” to 0.400” (typically 0.100” to 0.250”)

Options: Additives for color, UV resistance, antimicrobial or other properties

Maximum service temperature: 260°C/500°F

FEATURES AND BENEFITS
- Exceptional resistance to chemical reaction, high temperatures, corrosion and stress-cracking
- Lower total cost of ownership than traditional metals and alloys
- Longer service life and less maintenance than powder coating or sheet lining
- Optimal design flexibility
- Shorter manufacturing lead times

Rotational lining is ideally suited to protect unconventionally sized or shaped parts. A uniform, seamless polymer layer is bonded to the interior of the metal structure, producing a monolithic, corrosion-and chemical-resistant lining that conforms to complex shapes and is virtually free of stresses.

Seamless lining of complex parts

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