

FRP for Corrosive Oil and Gas Service: Specification Checklist

Five applications and how to specify corrosion-resistant fiberglass, from BLG Fiberglass

Where FRP fits

1 Piping and process lines

Produced water, brine, firewater, and process fluids without internal scaling or rust.

2 Storage tanks and vessels

Vinyl ester corrosion barrier inside, structural laminate behind, often to ASME RTP-1.

3 Scrubbers, ducting, and stacks

Resist condensed acids and humidity that punish metal.

4 Gratings, walkways, structures

Non-conductive, non-sparking, slip-resistant in splash and salt zones.

5 Offshore and produced water

Corrosion resistance plus weight savings for deck-load limits.

Specify it right

1 Match resin to chemistry

Polyester, vinyl ester, or specialty resin for the actual service.

2 Require a true corrosion barrier

A resin-rich inner layer protects the structural wall.

3 Name the governing standard

ASME RTP-1, the relevant ASME piping code, AMPP corrosion guidance.

4 Define fire and temperature limits

Confirm flame-spread rating and maximum service temperature.

Decide on value

1 Compare lifecycle, not sticker price

Count steel linings, recoating, cathodic protection, and inspection.

2 Verify fabrication quality

Ask how glass content, cure, and void control are confirmed.

Have a custom fiberglass or FRP project? Talk to the BLG fabrication team.

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