

INNER **LINER** CHOICE.



The materials that make up the inner shell of composite pressure vessels are both temperature-resistant and chemical-resistant. Inner shells can be formulated to offer flexibility for your specific industry.

The inner shell isolates the fluid contents of the tank to eliminate corrosion, intrusion or reaction. The inner shell material is the only material in contact with the contents.

Polyethylene (PE) is the common inner shell material but polypropylene (PP), PVDF and other custom materials belong to the standard composite pressure vessels.

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Chemical Resistance

PE POLYETHYLENE (PE)

Good chemical resistance against strong acids and alkalis. Approved for food contact, drugs and drinking water installations. (see enclosed documents: Fresenius, DSM, Water Byelaws)

PP POLYPROPYLENE (PP)

Good chemical resistance against strong acids, alkalis and oils.
Good resistance to the most organic chemicals.

PVDF POLYVINYLIDENEFLUORIDE (PVDF)

A fluoroplastic with excellent chemical resistance against strong acids and alkalis, oils and organic solvents. Specially suited for semiconductor, pharmaceutical, ultra pure water, hightemperature and critical chemical process applications.

Please consult our factory for complete information on these materials.

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Chemical Resistance table

	<i>MIN Pressure</i>	<i>MAX Pressure</i>	<i>MAX Temperature</i>	<i>Brine</i>	<i>Sulphuric acid</i>	<i>hydrochloric acid</i>	<i>Sodiumhydroxyd</i>
THIS TANK IS RESISTANT TO	bar	bar	°C	NaCl	H₂SO₄	HCl	NaOH
F – Composite flange	0	10 bar	65°C	+	5%	5%	5%
C – Composite thread	0	10 bar	50°C	+	5%	5%	5%
H – High performance	0	10 bar	65°C	+	5%	5%	5%
V – Vinylester	0	10 bar	65°C	+	5%	5%	5%
P – Polyester	0	10 bar	50°C	+	-	-	-

⊕ suited ⊖ not suited

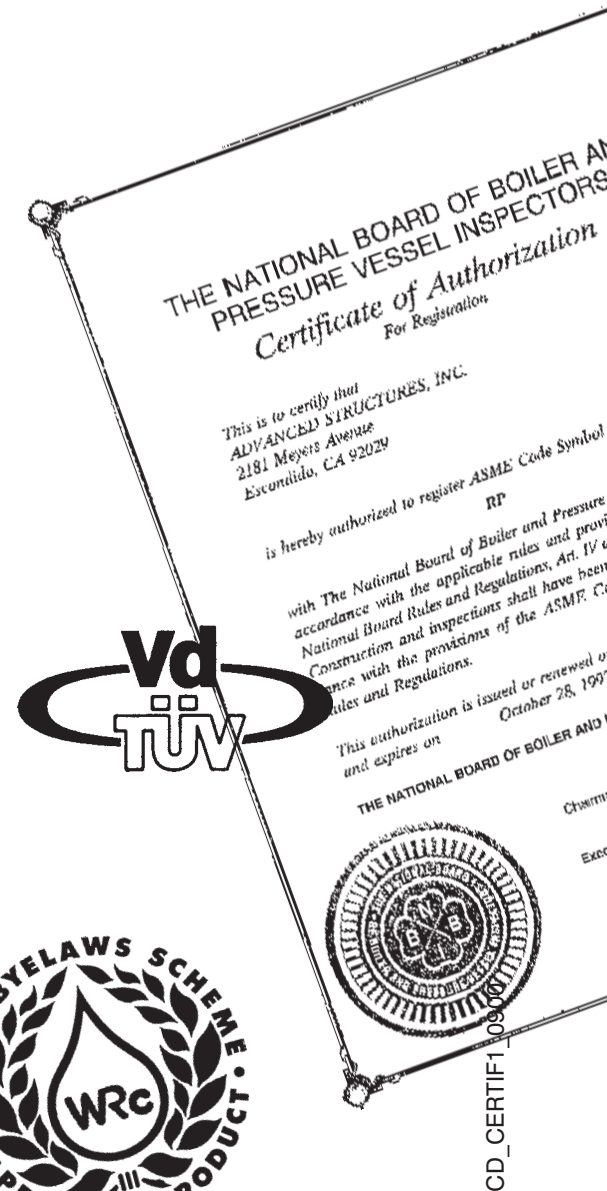
Please consult our Customer Service for resistance to other chemicals, deviating working pressures and deviating tank configurations.

QUALITY ASSURANCE & CERTIFICATION POSSIBILITIES

ON REQUEST, VESSELS CAN BE SUBMITTED FOR CERTIFICATION TO LEADING APPROVAL BODIES SUCH AS TÜV AND ASME.

- ZEFU / TÜV
- UDT
- ASME
- Water Byelaws / WRc
- FDA
- Fresenius
- ISO 9001
- Manufacturer's test certificate
- Manufacturer's certificate of conformity
- Manufacturer's material certificate
- Manufacturer's certificate of origin

ZEFU



STRUCTURAL