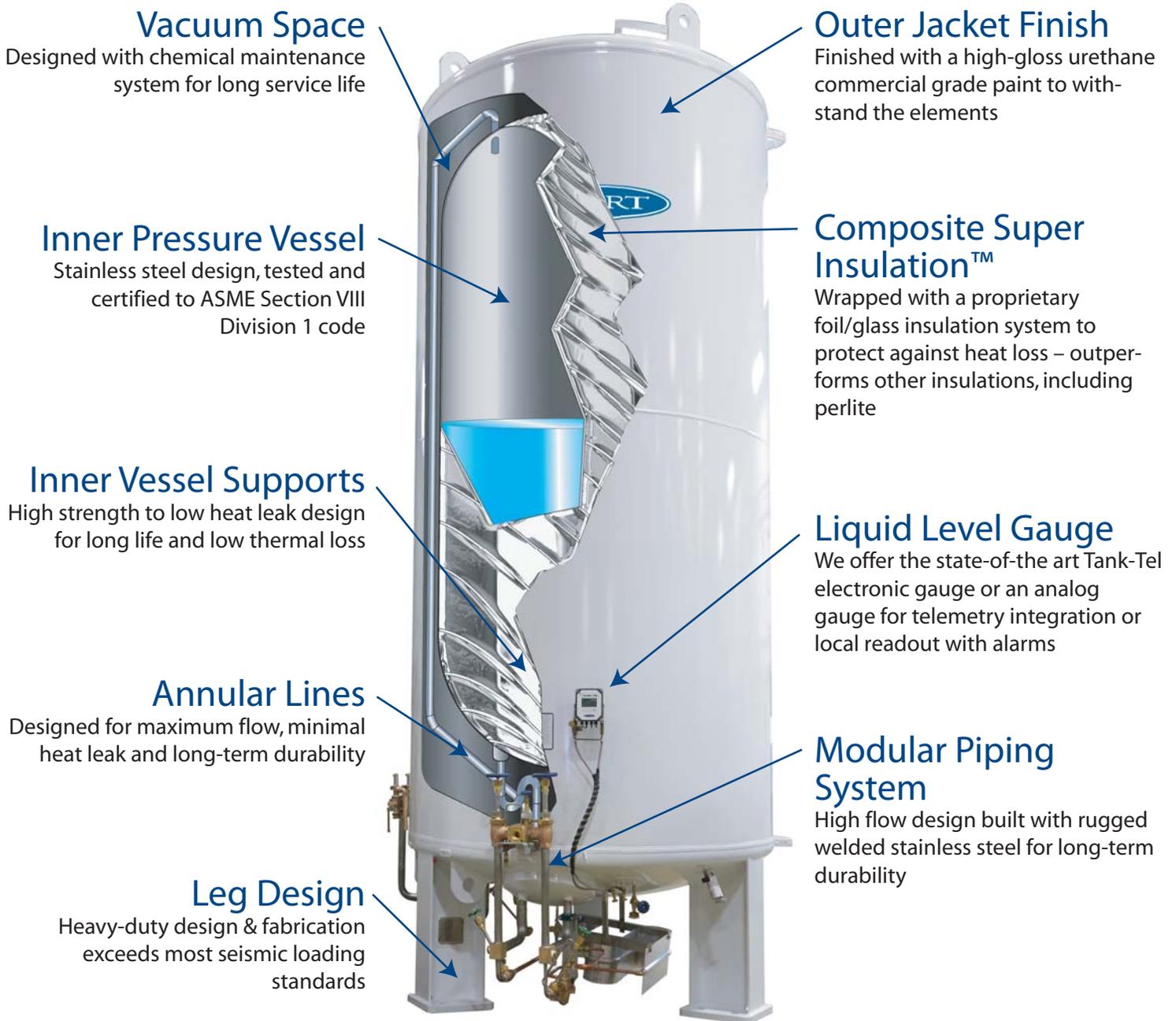


Bulk Storage System Design

Composite Super Insulation™ vs. Perlite

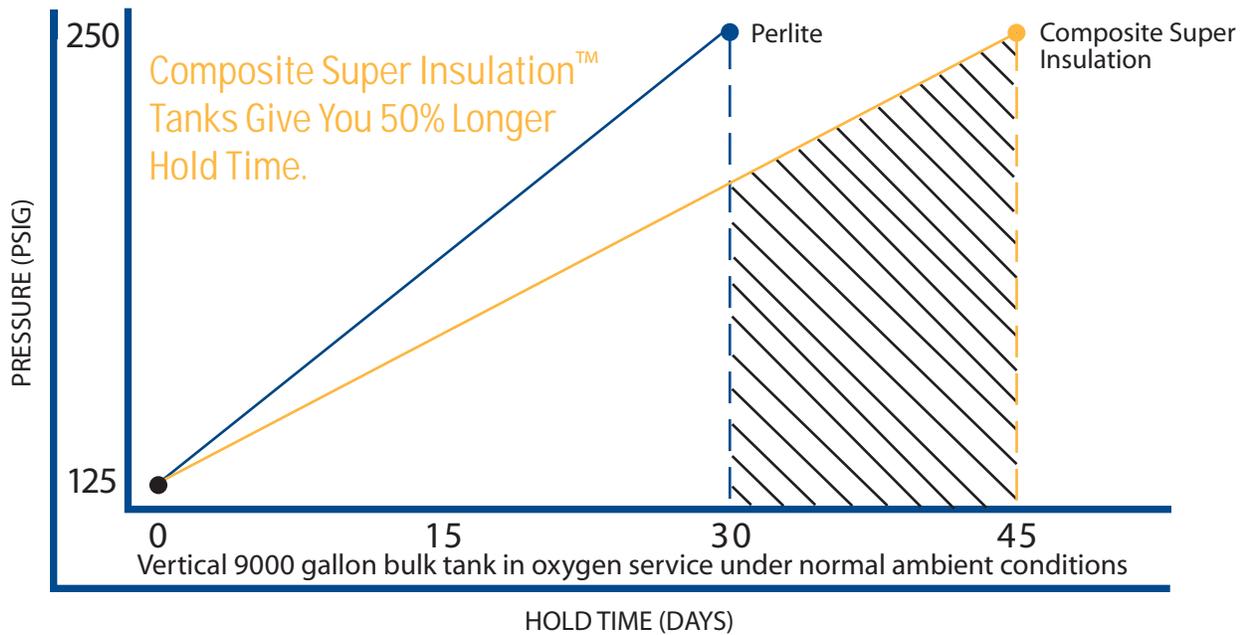


See The Difference

At Chart we have always taken pride in developing the best thermal insulation system possible in our cryogenic bulk tanks. Years of experience have driven us to engineer our multi-layer Composite Super Insulation™ system to achieve the ultimate thermal protection in our cryogenic bulk storage equipment. Providing the best insulation system to protect your valuable gases from harsh ambient conditions results in lower pressure rise and lower losses, yielding better gas utilization. Our Composite Super Insulation and Chart Vacuum Technology® is at the core of why Chart bulk tanks are recognized around the world as the premier cryogenic bulk storage tank.



Pressure Rise Comparison from 125 psi to Relief Valve



Clearly, the Composite Super Insulation™ has it all.

COMPOSITE SI	Key Features	PERLITE
<input checked="" type="checkbox"/> 114	Diameter (in)	<input type="checkbox"/> 118
<input checked="" type="checkbox"/> 29,400	Tare Weight (lbs)	<input type="checkbox"/> 38,400
<input checked="" type="checkbox"/> 0.1	NER (%)	<input type="checkbox"/> 0.15
<input checked="" type="checkbox"/> 45	Hold Time (days)	<input type="checkbox"/> 30
<input checked="" type="checkbox"/> 1,035	Losses at MAWP (SCFD)	<input type="checkbox"/> 1,550

Note: All values based on a vertical 9000 gallon bulk tank half-full in oxygen service at 125 psig under normal ambient conditions. Published values posted online. SCFD = Standard Cubic Feet per Day

