



ToughShield (TS1000) Plating for Tube Fittings and Adapters

Now With up to 1,000 Hours of Corrosion Resistance

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

Introducing the New Standard in Protection

Parker Fittings and Adapters Now Fight Corrosion Longer and Harder



Get the same high-quality Parker tube fittings and adapters you already trust – now with ToughShield (TS1000) enhanced standard plating. This new ultra-resistant plating **prolongs part life by up to 1,000 hours**. Offering unmatched corrosion protection at **no additional cost**, TS1000 withstands the harshest operating environments, particularly those that promote the rapid onset of red and white rust. Nothing else is changing. **Fittings and adapters have the same torque values, coefficient of friction, pressure ratings, color and other specifications.** The only difference: more than the previous corrosion resistance, and once again, exceeding the competition.

Reduced Cost of Ownership

Corrosion is a key concern in severe marine, mining, industrial and mobile applications and the

many other markets that Parker serves. It causes both direct and indirect economic losses. Protecting fittings and adapters with durable, high-quality plating dramatically reduces replacement cost and downtime.

Parker TS1000 Fights Against:

- System contamination
- Potential leaks
- Fitting connection problems
- Aesthetic quality concerns
- Maintenance difficulty
- Improper function of adjacent components (valves, pumps, cylinders)
- Accelerated corrosion of adjacent components

Proven Performance Increase

TS1000 substantially extends equipment life. It keeps fittings and adapters looking better and working longer. In neutral salt spray ASTM B117 tests conducted by

accredited Miami Valley Materials Testing Center, **Parker TS1000-plated tube fittings remained free of rust for up to 1,000 hours. This is a dramatic improvement over the SAE requirement of 72 hours.** The independent tests also showed Parker fittings to outlast those of competitors (at right).



In severe marine, mining, industrial and mobile applications, Parker fittings and adapters with TS1000 resist the formation of red and white rust far longer than the 72-hour SAE requirement and competitive plated fittings and adapters.













































Stop Corrosion Before it Spreads

Corrosion is like a virus that infects your system. It migrates from component to component, often promoting the need for earlier and more frequent repairs to adjacent fittings and mating components.

In the example shown here, not only has the straight fitting corroded, but there is also strong evidence that the corrosion is migrating to the hydraulic hose and cylinder boss. This substantially magnifies replacement or repair costs.

TS1000 provides a proactive defense.

Independent Salt Spray Test Proves Parker TS1000 Is the Clear Leader

	HOURS (EXPOSED TO NEUTRAL SALT SPRAY TEST ASTM B117)					
	72	144	400	500	720	1000
PARKER						
COMPETITOR A						
COMPETITOR B						
COMPETITOR C						
COMPETITOR D						
COMPETITOR E						
COMPETITOR F						

Pictures and testing were completed by Miami Valley Materials Testing Center – an accredited independent test center.



At **1,000 hours with no rust formation**, tube fittings with Parker TS1000 plating exhibited **superior corrosion protection**. The Parker fittings far exceeded the 72-hour SAE requirement and outlasted the six competitor brands tested.

Corrosion is inevitable. Take control of how you combat it.
Visit www.ravagesofredrust.com to learn more.

Parker Fluid Connectors Group

North American Divisions & Distribution Service Centers

Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:

Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles:

Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:

Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

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