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HYDROGEN ADVANCED CORROSION MANAGEMENT TECHNOLOGY





Parker SuparShield™ for Hydrogen: Corrosion Mitigation and Extended Asset Life

Parker SuparShield™ is an advanced corrosion management technology engineered for hydrogen production, compression, storage, and fueling environments. It forms a robust barrier on stainless steel fittings, adapters and valves to resist hydrogen embrittlement, pitting, caustic attack and fatigue damage.

By protecting wetted & non-wetted hardware surfaces, SuparShield™ helps preserve system integrity and reliability without the cost and extended lead times of full conversion to exotic CRAs (Corrosion Resistant Alloys), such as Super Duplex, Monel, Hastelloy, and similar alloys.

Key benefits for hydrogen applications:

- Corrosion mitigation: Strong barrier against moisture, oxygen, and chlorides to protect threads, seal interfaces, and external surfaces from corrosion.
- Extended asset life: Slows surface degradation to extend maintenance intervals, improve uptime, and reduce unplanned interventions and cost.
- Cost Efficiency: Delivers high corrosion resistance on stainless steel hardware, reducing reliance on exotic CRAs (Corrosion Resistant Alloys) applications and lowering total cost of ownership.

By mitigating corrosion at the source and preserving component condition, SuparShield™ supports safer, more reliable hydrogen operations and longer service life across critical assets.

To learn more about Parker SuparShield™ and its corrosion mitigation and extended asset life benefits, visit us online at parker.com/ipd or QR scan the following SuparShield™ Whitepaper and MPI™ Series Catalog.

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