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Austenitic versus ferritic: what is the difference?

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What is a duplex stainless steel?

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What is the heat-affected zone?

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What happens when austenitic stainless steel is sensitized?

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Intergranular versus transgranular cracking?

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Why does the dew point matter for corrosion?

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A stainless steel with a mix of austenite and ferrite.

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Austenitic steels (300 series) have a face-centered cubic structure and are nonmagnetic when annealed. Ferritic steels (carbon steel, 400 series) are body-centered cubic and magnetic.

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Chromium carbides form at grain boundaries, leaving them low in chromium and open to intergranular attack.

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Base metal next to a weld whose structure was changed by the welding heat without melting.

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Corrosive water often forms right where a vapor first condenses, so attack can peak there.

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Intergranular cracks follow grain boundaries; transgranular cracks cut through the grains.

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In a galvanic couple, which metal corrodes?

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CUI?

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MIC?

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HIC and SOHIC?

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SCC and SSC?

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HTHA?

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Corrosion under insulation.

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The less noble one, the anode.

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Hydrogen-induced cracking, and stress-oriented hydrogen-induced cracking.

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Microbiologically influenced corrosion.

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High-temperature hydrogen attack.

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Stress corrosion cracking, and sulfide stress cracking.

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