

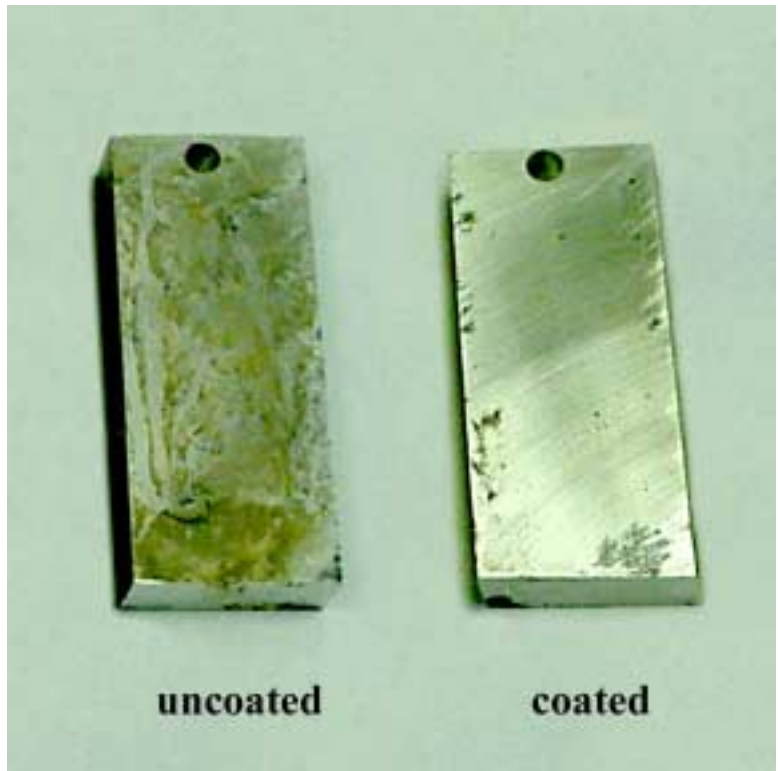


# Cerablak™ Protective Coatings on Alloys

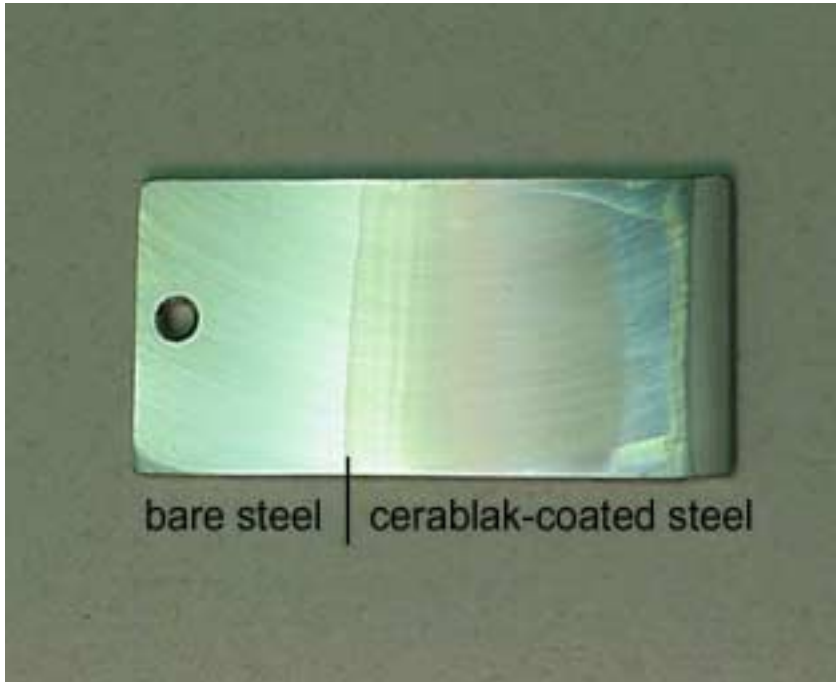


Uncoated and coated SS304 after 1000°C, 100 hr anneal in AMBIENT air. Film is ~1  $\mu\text{m}$  (0.04 mils) thick. Specific weight change of sample is 129.3 vs. 4.0  $\text{mg}/\text{cm}^2$  for uncoated vs. coated, respectively

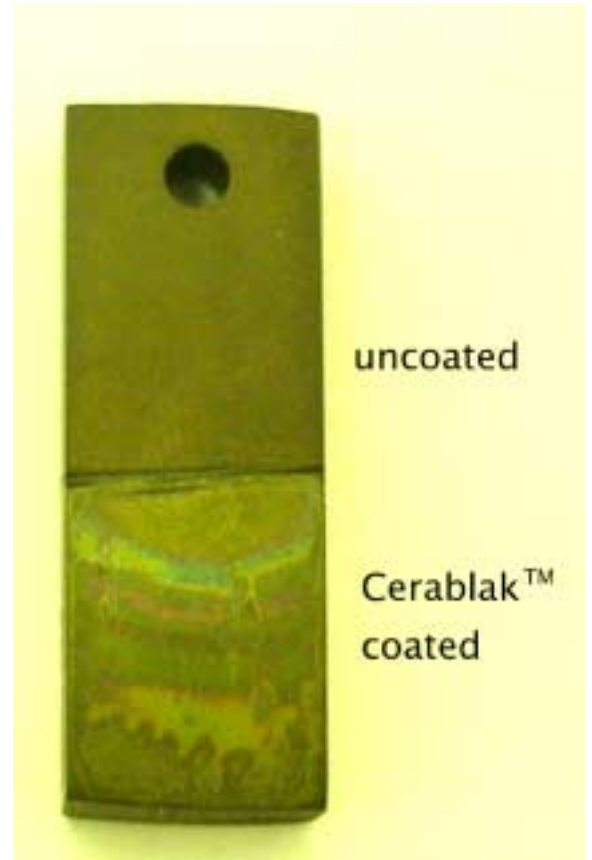
Uncoated and Cerablak™ coated aluminum after 36 hr salt fog test.



# Coating Examples



Partially-coated SS304 after curing by an IR lamp. The coated half shows a transparent coating which was cured in only a few minutes without requiring a furnace.



Partially-coated SS304 after high-temperature treatment. The coated section remains shiny and reflective while the uncoated half shows a dull oxide scale.



Partially-coated stainless steel frying pan after cooking meat over a propane stove. The uncoated section is discolored by oxidation and surface degradation, while the Cerablak™-coated section retains its original appearance.