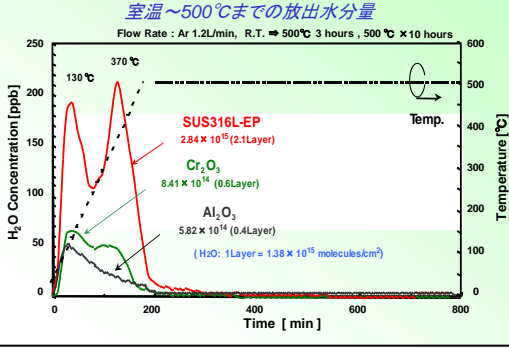


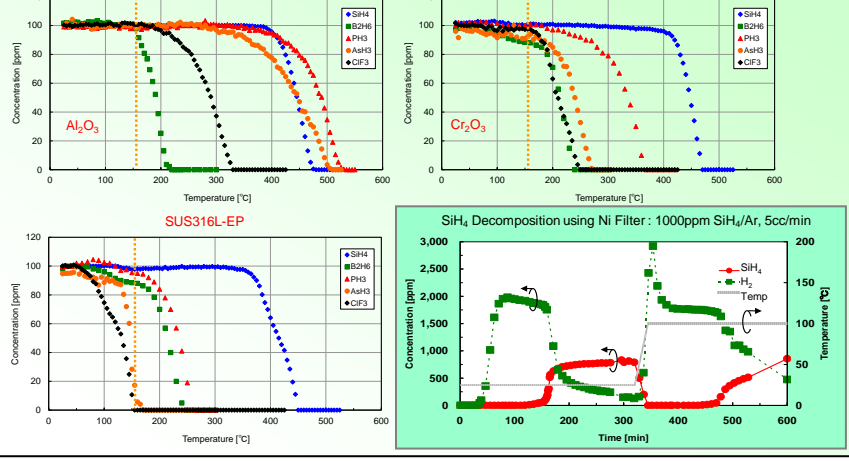
Cr₂O₃ / Al₂O₃不働態処理技術 Cr₂O₃ / Al₂O₃ Passivation Technology

Drydown Property



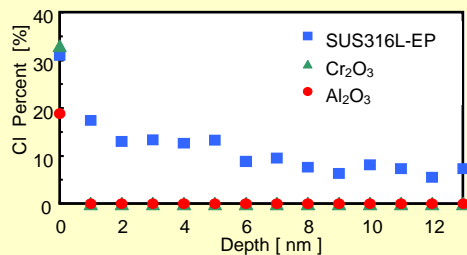
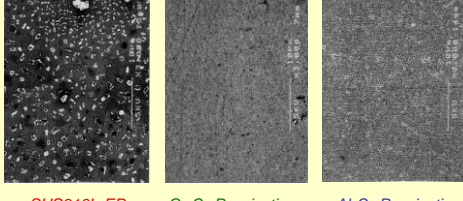
Non Catalytic Behavior

Thermal Decomposition Characteristic of the Various Process Gas in the Various Surface

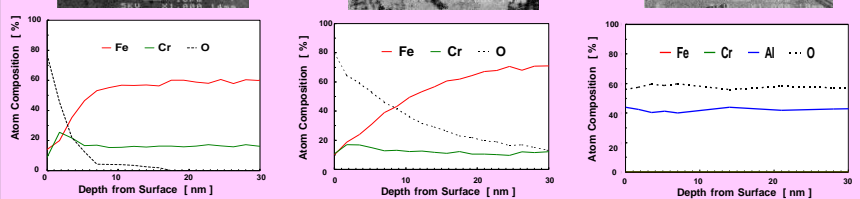
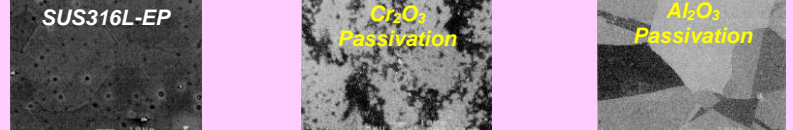


Corrosion Resistance

SEM Images and XPS Depth Profiles of Various Metal Surface
(100% HCl gas, 5kg/cm², 120°C × 24 hours)



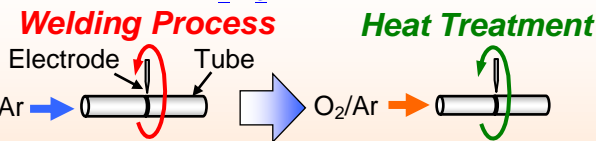
SEM Images and XPS depth profiles after Ozone Gas Flow on Various Surface
(10% O₃ at 100°C × 48 hours)



Cr₂O₃ Passivation film break down by ozone gas and O₂ Plasma.
Cr₂O₃ volatilizes to change into CrO₃ (Cr⁶⁺)

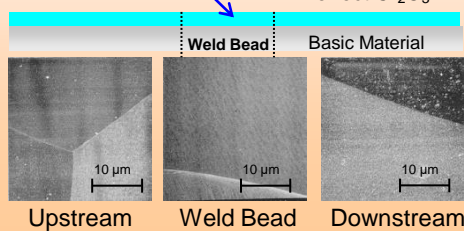
Formation of Cr₂O₃ and Al₂O₃ Passivation on Welded Bead

Cr₂O₃ Passivation

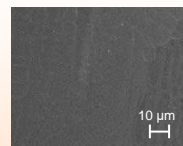
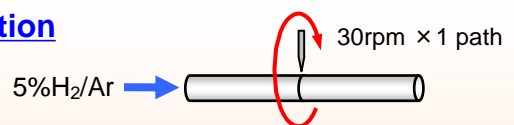


Metal Contamination Free

Perfect Cr₂O₃ Film

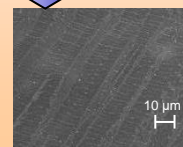


Al₂O₃ Passivation



Weld Bead

100% Cl₂, 5kg/cm²
100°C × 24 hours



After corrosion test

