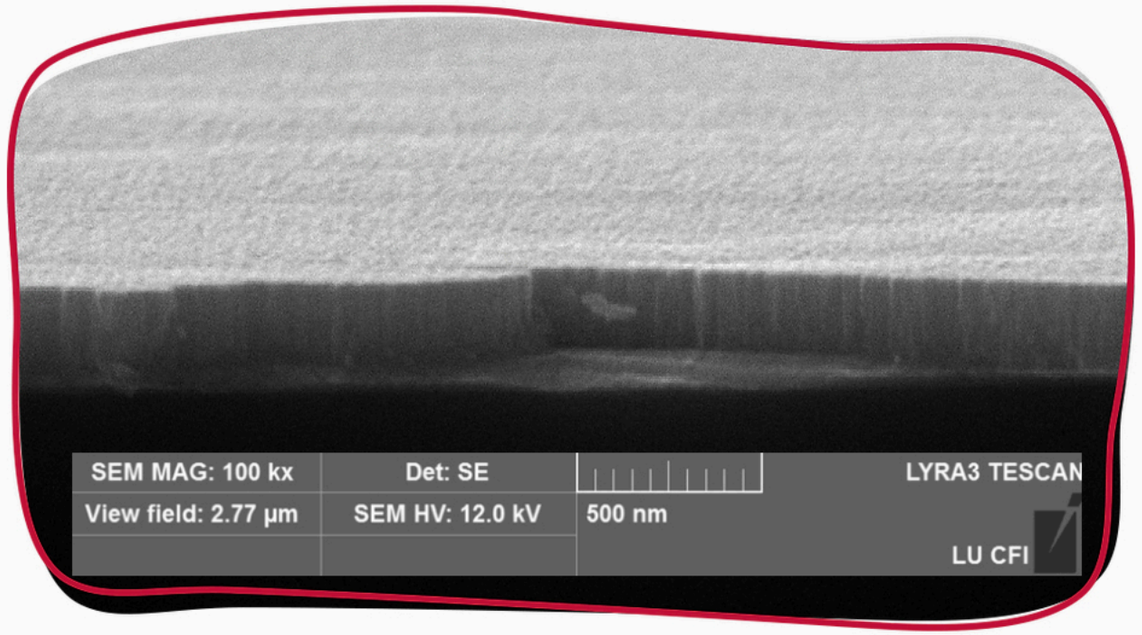
Bimetallic Nitride for BPP

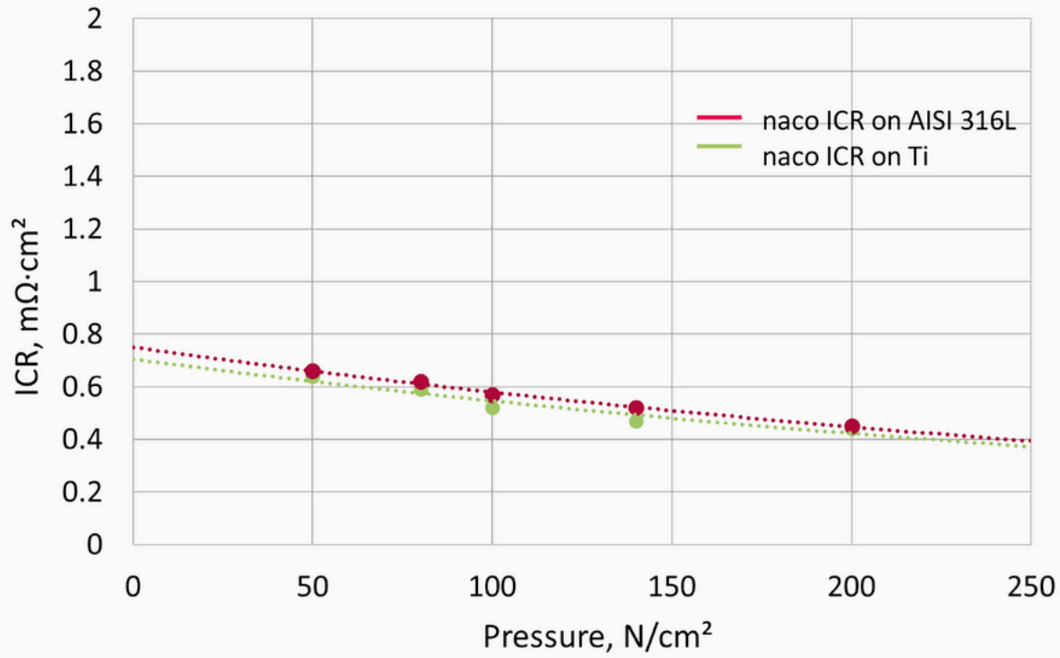


Our bimetallic nitride coating (**Naco ICR**) protects BPPs **without extensive use of noble materials.** Naco ICR is ranked #1 in the independent performance and degradation tests.

It consists of three layers. The first provides good adhesion, the second (main) nitride layer prevents hydrogen diffusion and the few-nanometer top layer ensures **stable conductivity.**

Application	Bipolar plates (BPP)
Material	Bimetallic nitride with top layer
Thickness, µm	0.4 – 0.8
Substrate material	Titanium, Stainless Steel
Substrate thickness, mm	0.05 – 2
Corrosion current*, µA/cm²	< 0.7
Open circuit voltage (OCV), V	0.8
Interfacial contact resistance (ICR), mΩ·cm²	< 1
ICR after 24 hours*, mΩ·cm²	< 1
Contact angle	84°

*Steady-state polarization at 1.1V (vs RHE), water sulfur acid solution pH3, 0.1 ppm HF at 80°C



1.1V (vs RHE), water 0,05M sulfur acid solution, 2 ppm HF at 80°C