Exciting new product - TIG wire with flux

With the use of flux-core TIG wire, bellows weld repairs can now be made without the need for purging on the backside. The flux migrates to the backside of the weld shielding it from any oxygen. This changes everything.

Bellows weld repairs have always been considered a temporary fix, mostly due to the inability to use a back purge which results in porosity and oxidation. This oxidation is commonly referred to as ‘sugaring’, due to the clumping of the weld.

I’ve written a past article on the dicey nature of repairing bellows (see Jan ’08), and all those precautions still exist, but the addition of flux now greatly improves the quality of the weld.

Sugar is not healthy

Sugaring of stainless steels is against all kinds of welding codes. The porosity can not only initiate cracks but it is also much more susceptible to corrosion attack.

The Bottom Line

For those who have the experience; bellows weld repair has now taken a large step forward. Weld on.