



ESAB and ÖZMETAL Collaborate to Provide Supply Chain Solution For Leading Turkish Engineering/ Fabrication/Construction Firm

- Coordinated local supply and delivery of filler metals for electroslag cladding.
- Exaton Ni60 (AWS NiCrMo-3) delivers excellent weldability and performance.

Situation

Çimtaş is a leading provider of integrated engineering, procurement, welded fabrication, assembly and installation solutions based in Bursa, Turkey, about 150 km south of Istanbul. As part of a project for a large European chemical processing facility, Çimtaş required a high volume of nickel alloy strip for electrode slag cladding of a vessel.

Complication

Client specifications required a maximum Iron “Fe” level of 5% on top of cladding composition. Secondly, because of nickel alloy surcharges, the previous supplier for this expensive filler metal required Çimtaş’ to pay for the entire shipment, as well as accept the entire delivery at once.

Solution

First, ESAB worked with Çimtaş’ technical team to evaluate and confirm the performance of Exaton Ni60 Band (formerly Sanicro® 60) in 0.5 mm thick x 30 mm wide strips for the cladding application. Through the controlled chemistry of Exaton Ni60 Band, Çimtaş’ could achieve its goal of max 5% Fe composition in two layers.

Next, ESAB collaborated with ÖZMETAL, its distribution partner in Turkey. With facilities in Istanbul, ÖZMETAL could guarantee monthly delivery of four pallets of Exaton Ni60 on a timely basis for the duration of the project.



BENEFIT #1

Local Support

ESAB and ÖZMETAL have been working together since 1976. In addition to representing the entire ESAB portfolio, ÖZMETAL has welding engineers, welding technicians and welders on staff who work closely with ESAB technical experts. Combined, they can guarantee everything Çimtaş needs, including the timely and reliable delivery of consumables, as well as process development and troubleshooting support.

For the electroslag project, ESAB was not the lowest cost filler metal provider. However, because of its local strength, the customer could better manage cash flow without concerns about running out of stock and interrupting the project.



BENEFIT #2

Speciality Alloy Leader

Exaton's line of high-nickel and high-alloy austenitic stainless steel welding consumables has been qualified for use in a wide range of wet-corrosive environments and high-temperature applications, with customers recognizing its consistently high quality.

Exaton Ni60 strip for Çimtaş' electroslag cladding operation shows very good resistance to pitting corrosion and is almost immune to stress corrosion cracking in chloride-containing environments, even when applied as a single layer in a cladding operation. Çimtaş confirmed that its performance meets or exceeds that of the previous strip.



BENEFIT #3

Full Solution Provider

ESAB also supplied SAW filler for joining the segments of the vessel being clad, specifically OK Autrod 13.10 SC (AWS CrMo-1) wire paired with OK Flux 10.62 Plus BP. The wire has very low level of impurities and provides high toughness requirements with creep resistant steels. OK Flux 10.62 Plus BP is a high basicity, neutral, agglomerated flux especially suited for narrow gap welding because of its good slag detachability and smooth sidewall blending. The narrow running slag allows higher currents in narrow gap joints which means increased deposition rate and consequently higher productivity.

Additional solutions include OK Autrod 12.32 wire (AWS EH12K), A6 SAW tractors, Warrior multi-process systems and Renegade MMA/TIG power sources for welding elsewhere in Çimtaş' operations.

Complete SAW Solutions Available



Welders and Filler Metals



ESAB also offers a full portfolio of filler metals and equipment for Petrochemical applications. Contact your ESAB sales representative to learn more, or visit esab.com/petrochemical



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