

Exaton Ni60

Exaton Ni60 welding wire is suitable for joining nickel-chromium-molybdenum nickel alloys and chromiumnickel-molybdenum steels with very high corrosion resistance in oxidizing, aqueous and high temperature environments such as 6Mo-steels, UNS N06625 (2.4856) and corresponding grades. It is also suitable for joining stainless steels and nickel alloys for high-temperature service.

Exaton Ni60 can also be used for dissimilar joining of stainless steels to nickel alloys, for overlay welding and it is used for MIG/MAG welding as well as hot wire TIG and mechanical TIG.

Applications for Exaton Ni60 are found in cryogenics, components subject to high temperature service up to 980°C (1800°F) such as aircraft ducting, engine exhaust systems, power boilers and recovery boilers and a diversity of seawater applications. The combination of strength and corrosion resistance over a wide range of temperatures is utilized in reaction vessels, line pipe distillation columns and heat exchangers.

Классификация сварочной проволоки	SFA/AWS A5.14 : ERNiCrMo-3 EN ISO 18274 : S Ni 6625 (NiCr22Mo9Nb) Werkstoffnummer : 2.4831
Одобрения	BV Ni 6625 CE EN 13479 VdTUV 19483

Одобрения на материалы выдаются с привязкой к заводу изготовителю. Подробную информацию можно получить в представительствах ESAB.

Тип сплава	Alloyed nickel (Ni + 22 % Cr + 9 % Mo - 3.5 % Nb)
Защитный газ	I1, I3, M12 (EN ISO 14175)

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
После сварки	20 °C	200 J
После сварки	-40 °C	170 J
После сварки	-196 °C	140 J

Хим. состав наплавленного металла

C	Mn	Si	S	P	Ni	Cr	Mo	Al	Cu
0.023	0.05	0.1	0.001	0.003	64	21.5	8.9	0.05	0.01

Хим. состав наплавленного металла

Nb	Ti	Co	Fe	Nb+Ta
3.34	0.2	0.01	1.69	3.35

Хим. состав проволоки

C	Mn	Si	S	P	Ni	Cr	Mo	Al	Cu
0.02	0.02	0.06	0.002	0.002	65.0	22	9	0.08	0.02

Хим. состав проволоки

N	Nb	Ti	Co	Fe	Nb+Ta
0.02	3.4	0.2	0.01	0.3	3.5

Данные наплавки

Диаметр	Ток	В	Скорость подачи проволоки	Коэфф. наплавки
1.0 mm	100-200 A	21-27 V	6.0-13.0 m/min	2.5-5.5 kg/h
1.2 mm	160-280 A	24-30 V	6.0-10.0 m/min	3.6-6.0 kg/h
1.6 mm	200-350 A	25-32 V	4.0-8.0 m/min	4.3-8.6 kg/h

Данные наплавки

Диаметр проволоки	Current	Voltage	Wire Feed Speed
0.8 mm	40-120 A	15-19 V	4.0-8.0 m/min
1.0 mm	60-220 A	15-28 V	4.0-12.0 m/min
1.2 mm	150-260 A	24-29 V	3.0-10.0 m/min
1.6 mm	230-350 A	25-30 V	3.0-5.0 m/min