



A Non-Machinable Iron-Base Alloy
for Contaminated Cast Irons

EutecTrode® 27



- High Arc force powers through contaminants to clean and seal metal surfaces
- Good for pre-welding preparation on unknown and low-grade cast iron repairs
- Non-Machinable

EutecTrode® 27

EutecTrode 27 is an Iron-based electrode designed to cut through contaminants in cast irons where Nickel-based alloys fail to adhere and post-weld machining is not necessary.

As a pre-treatment, EutecTrode 27 is especially effective for the welding and repair of low and unknown grades of cast irons. The high arc force helps to scavenge impurities out and seal the immediate area around repairs, resulting in high-quality final deposits when paired with other Eutectic cast iron products.

TECHNICAL DATA

Typical Values

Tensile Strength:	60,000 psi (415 N/mm ²)
Hardness:	50 HRC
Current & Polarity:	AC or DC (electrode +)

DIAMETER	1/8" (3.2mm)	5/32" (4.0mm)
AMPERAGE	80-150	120-170

PROCEDURE FOR USE

PREPARATION: Prepare the casting defect by chamfering with either Eutectic ChamferTrode® or ExoTrode® AC/DC after nominally preheating the casting within a 150°-200°F temperature range.

TECHNIQUE: Butter or clad the prepared surfaces using a slightly longer arc length (1/4" – 3/8") than normal. The key to sealing porous surfaces is to actually "arc-seal" by lightly melting the surface while at the same time depositing the smallest amount of weld metal. After completing the sealing passes select a companion product such as Eutectic 2240 to finish the repair.

POST WELDING: Slow cool using any available insulating material. Allow to slow cool out of drafts.

TYPICAL APPLICATIONS

Heavily contaminated or oxidized cast iron such as furnace grates, oil pans, dies, agricultural equipment, etc.



Eutectic Corporation:
N94 W14355 Garwin Mace Dr.
Menomonee Falls WI, 53051 USA
+1 800. 558. 8524 • eutectic.com

Eutectic Canada:
428, rue Aimé-Vincent Vaudreuil-Dorion,
Québec J7V 5V5 Canada
+1 800. 361. 9439 • eutectic.ca



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