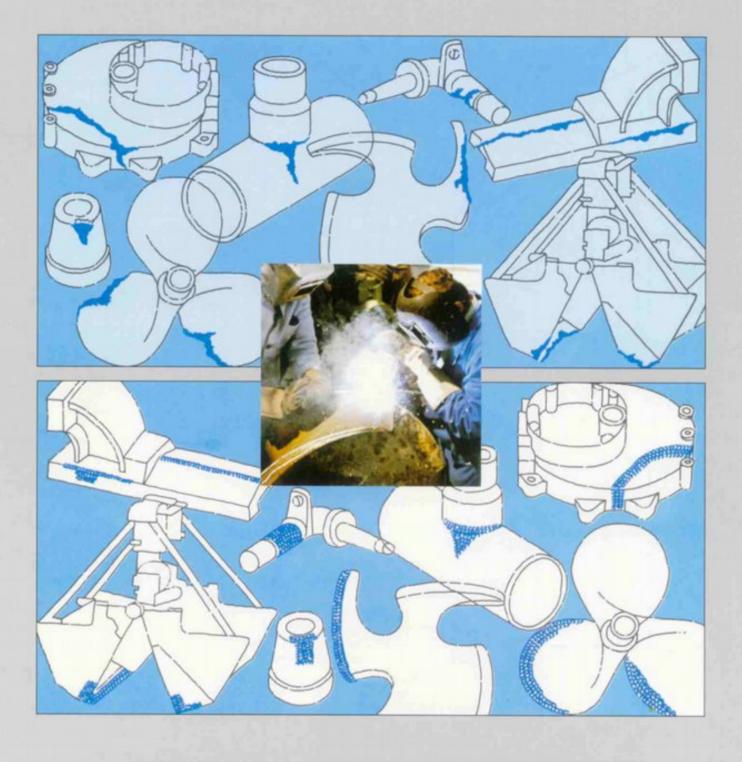
MAINTENANCE & REPAIR WELDING





GRICON®/GRIDUCT®

for welding mild steel and low alloy steel

	GRICON 33 Universal rutile coated stick electrode for new construction and repair welding of steel up to a tensile strength minimum 510 N/mm ² (steel grades S275-S355)	GMAW FCAW FCAW-SS	Other processes: LNM 26 Outersh. 71E-H Innersh.NR-203MP
	Simple to weld in all positions including vertical down, on AC and DC Suitable for low OCV transformers. Very suitable for tack welding; little spatter and easy slag removal.		Approvals: TüV, DB, LRS, BV, DNV, ABS, GL, UDT
J.J.	GRICON 15 AWS: E 7018-1 EN499; E460 5 B 32 Basic thick coated stick electrode for very low hydrogen weld metal, suitable for constructions operating from -40 to +350°C. For butt welding of general structural steels, shipbuilding steels boiler steels and pipe steel grades up to X60. Very smooth welding characteristics.	GMAW FCAW FCAW-SS	LNM 26 Outersh. 71E-H Innersh.NR-203NiC
A Dis			Approvals: TÜV, DB, UDT LRS, BV, DNV, ABS, GL
No.	GRIDUCT 1AWS: E 9018-GEN499: E55 5 1NIMO B32 H5Basic coated stick electrode for welding high strength steel constructions with steel grades S460-S620 and pipe lines API 5L X60-X80. Also suitable for welding cast steel grades such as GS 60 and grade C45 (Preheating in such cases required) The weld shows high impact toughness, typically down to -40°C.	GMAW FCAW FCAW-SS	LNM Ni1 Outersh.81Ni1-H Innersh. NR-450-H
			Approvals: TÜV, DB, UDT
Va	GRICON 53 Coated stick electrode for arc gouching and cutting of almost all materials. Suitable for bevel preparation and removal of welded		
A Contraction of the second se	attachements. Materials include mild, low alloy and high alloy steel, grey cast iron as well as aluminium and copper alloys. Arc cutting can be executed in all positions except vertical up. The electrode requires high current and arc voltage.		

GRINI®

Cu

Ni

25/20 CrNi

Cu

for welding dissimilar metals

/8 CrNi	St	GRINI 7 AWS: EN Stick electrode with a special basic covering, designer welding NiCr-alloys, 3.5-5-9% Ni-alloyed cryogenic st as well as joining dissimilar metals.		SMAW* GMAW GTAW	GRINI 207 LNM NiCro 70/15 LNT NiCro 70/15
%Ni	19/12/3 Cr Ni Mo	High toughness weld metal with application in a temp range of -269 to +900°C. A well directed stable arc p sound welding in all positions. The weld appearance is	rovides s smooth.		Approvals: TŨV, UDT
Monei	18/11 Cr Ni N	The weld metal has a high resistance to hot cracking. GRINI 5 Stick electrode for welding of NiCu-alloys and joints between different materials, for example steel and	ENICu-7 EN:-	GMAW GTAW	LNM NiCu 70/30 LNT NiCu 70/30
Cr-Ni austenite		NiCu-alloys. The weld deposit has a low C-content, allowing application between -196°C and +425°C. Ty strength is 500N/mm ² .	pical		Approvals: TÜV, UDT

SMAW: shielded metal arc welding (covered electrodes) GMAW gas metal arc welding

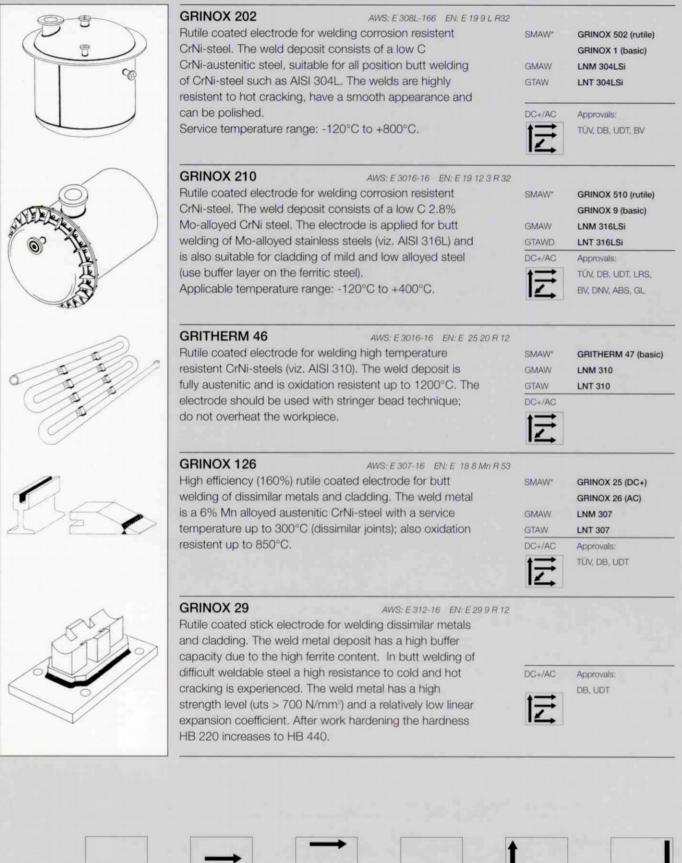
GTAW gas tungsten arc welding

FCAW: gas shielded flux cored arc welding FCAW-SS: self shielded flux cored arc welding *: similar electrodes

AC: alternating current DC+: direct current, electrode positive DC-: direct current, electrode negative

GRINOX®/GRITHERM®

for welding corrosion and heat resistent steel



AWS: EN:

1G

PA

2G

PC

4G, 4F PD

2F PB







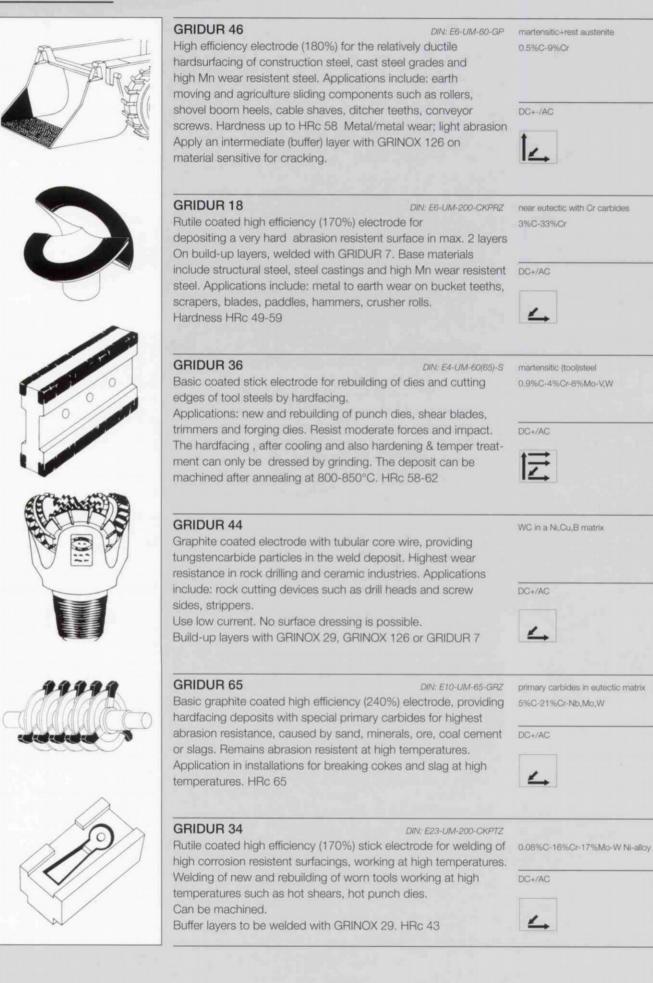
3Gu, 3Fu PF

3Gd, 3Fd PG

3

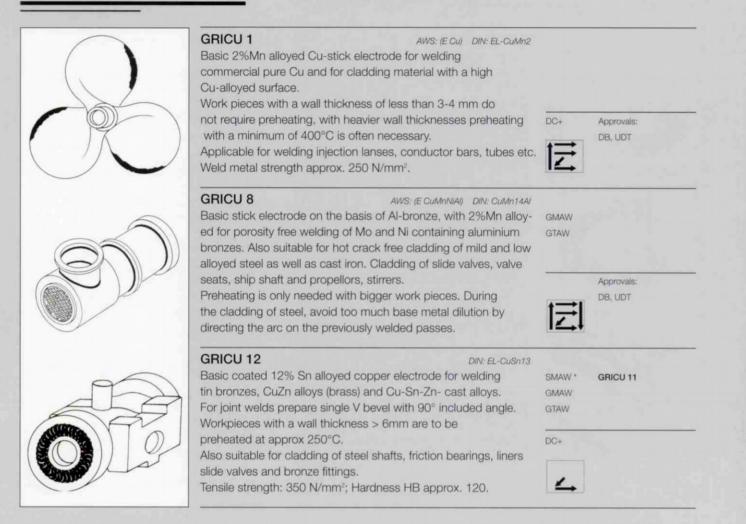
GRIDUR®

for hardfacing



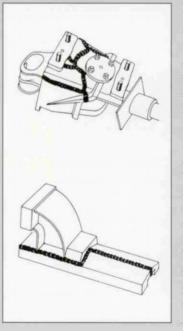
GRICU®

for welding copper and its alloys



GRICAST®

for welding cast iron



GRICAST 1

Basic graphite coated stick electrode with pure Ni core wire for welding grey cast iron as well as white and black temper casts. Universally suitable for repair welding of castings. Weld with short runs (30-50mm) and immediately peen beads in thoroughly in order to relieve stresses. Selection of DC-: pulsing arc, high penetration, good fusion

current type: DC+: high dep.rate, low penetration, high build-up AC: lowest heat input, preferable for filling grooves

DC-/AC

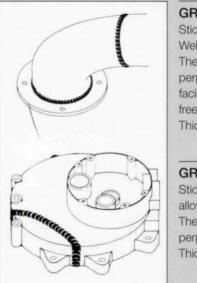
GRICAST 31

Basic graphite coated electrode wiith NiFe core wire (bi-metal), for repair welding of globular cast iron, white and black temper cast and austenitic cast iron with globular graphite. Butt welds between steel and globular cast iron. The bi-metal core wire prevents the electrode from overheating. On AC polarity, the electrode can be used in all positions; on DC+ smooth weld appearance with good penetration is obtained. Hardness HB approx. 180.

DC-/AC

GRILUMIN®

for welding aluminium and its alloys



GRILUMIN 14 AWS: AI-43 DIN: EL-AISI5G		
Stick electrode with special covering for welding of AlSi-alloys.	GMAW	LNM ALSI5
Welding of AlSi-alloys as such and with joints to other Al alloys.	GTAW	LNT ALSI5
The electrode is to be welded with a short arc with the electrode		
perpendular to the work piece. The special electrode coating	DC+	
facilitates the removal of oxide skins and production of porosity		
free welds.	1.	
Thicker workpieces to be preheated to 150-250°C.		
	Law	
GRILUMIN 5 DIN: EL-AISI12		
Stick electrode with special coating for welding of AlSi-cast	GMAW	LNM AISi12
alloys. The weld metal contains 12% Si.	GTAW	LNT AISi12
The electrode is to be welded with a short arc with the electrode		
perpendular to the work piece.	DC+	
Thicker workpieces to be preheated to 150-250°C.	+	
Thicker workpieces to be preheated to 150-250°C.	1.	

YOUR DISTRIBUTOR:



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