

Typical chemical composition of all-weld metal (wt%)

Typical mechanical properties of all-weld metal Hardness HV 180

Size(mm) & recommended welding parameters (A)					
Diameter / Length	2.6/300	3.2/350	4.0/350		
Flat position	65~85	70~110	95~150		

O Note: Refer to Page F4 Cast Iron Electrode welding note.

Product Features:

- Graphite type nickel base covered electrode for cast iron welding repair.
- High welding performance and good arc stability in low current range.
- Lower hardness of weld metal to get good machinability, good toughness and crack resistance.

Applications:

 Suitable for build up and repair welding of various kinds of cast irons.

Typical chemical composition of all-weld metal (wt%)				
С	Si	Mn	Ni	Fe
0.70	0.90	0.25	Bal.	4.0

Typical chamical composition of all wold metal (wt0/)

AWS A5.15 ENi-CI JIS Z 3252 DFCNi

AWS A5.15 ENiFe-CI

Typical mechanical properties of all-weld metal			
	Tensile Strength	Hardness	
	N/mm²	HV	
	412	166	

Size(mm) & recommended welding parameters (A)					
Diameter / Length	2.6/300	3.2/350	4.0/350		
Flat position	60~90	90~130	110~160		

O Note: Refer to Page F4 Cast Iron Electrode welding

SMAW Electrodes



GC55

JIS Z 3252 DFCNiFe

Product Features:

- Graphite type nickel base covered electrodes for cast iron welding and repair.
- High welding performance and good arc stability in low current range.
- All deposited metal contains approximately 55% Ni, 45%Fe.
- Expansion coefficient is similar to cast iron, easy to machining.

Applications:

 Suitable for joint and repair welding of various kinds of cast irons.

Products Introduction

Product Features:

- Low hydrogen type covered electrode for cast iron welding and repair.
- Using GC100 or GC55 for first laver and GC0 for the others to save cost.

Applications:

 Suitable for cast iron welding and repair welding under high temperature and non-post machining required condition.

Typical chemical composition of all-weld metal (wt%)

С	Si	Mn	Р	S
1.1	0.75	0.56	0.023	0.008

O Note: No specific all weld metal chemical composition on Est, above analysis data is for reference.

Typical mechanical properties of all-weld metal

-		
	Hardness	
	HV	
	250	

Size(mm) & recommended welding parameters (A)

Diameter / Length	2.6/300	3.2/350	4.0/400	5.0/450
Flat position	60~90	90~140	140~190	150~220

O Note: Refer to Page F4 Cast Iron Electrode welding note.

AWS A5.15 ENiFe-CI JIS 7 3252 DECNIFe

Product Features:

- Graphite type covered electrodes for cast iron welding and repair.
- High welding performance and good crack resistance.
- All deposited metal contains approximately 55% Ni, 45%Fe.

Applications:

 Suitable for joint and repair welding of various kinds of cast irons.

Typical chen	nical composit	ion of all-weld	metal (wt%)
С	Si	Mn	Ni
1.13	1.25	0.45	52

Typical mechanical properties of all-weld metal

Jerous mountaines proportion of an inotal mount
Hardness
HV
180

Size(mm) & recommended welding parameters (A) 2.6/300 3.2/350 Diameter / Length 4 0/350 Flat position 65~85 70~110 95~150

O Note: Refer to Page F4 Cast Iron Electrode welding

AWS A5.15 ENi-CI JIS Z 3252 DFCNi

Product Features:

- Graphite type covered electrodes for cast iron welding and repair.
- High welding performance and good arc stability in low current range.
- Better machinability property than similar level electrodes.

Applications:

 Suitable for build up and repair welding of various kinds of cast irons.

Typical chemical composition of all-weld metal (wt%)

С	Si	Mn	Ni	Fe
0.70	0.81	0.75	Bal.	4.1

Typical mechanical properties of all-weld metal

The same in the sa
Hardness
HV
166

Size(mm) & recommended welding parameters (A)

Diameter / Length	2.6/300	3.2/350	4.0/350
Flat position	60~90	90~130	110~160

O Note: Refer to Page F4 Cast Iron Electrode welding note.

GCI-3

AWS A5.15 ESt JIS Z 3252 DFCFe

Product Features:

- Low hydrogen Graphite type covered electrode for cast iron welding and repair.
- Using GC100 or GC55 for first layer, GCI-3 for the others to save cost.

Applications:

 Suitable for cast iron welding and repair welding under high temperature and non-post machining required condition.

Typical chemical composition of all-weld metal (wt%)

С	Si	Mn	Р	S
1.8	1.15	0.56	0.023	0.008

O Note: No specific all weld metal chemical composition on Est, above analysis data is for reference.

Typical mechanical properties of all-weld metal

The second secon	
Hardness	
HV	
250	

Size(mm) & recommended welding parameters (A)

Diameter / Length	2.6/300	3.2/350	4.0/400	5.0/450
Flat position	60~90	90~140	140~190	150~220

O Note: Refer to Page F4 Cast Iron Electrode welding note.