

## HARDNES TEST

(HBN)	Hardness Numbers	Major Load (Kgf)	Minor Load (Kgf)	(HV)	Sample Preparation	Specimen type	Specimen ID	Item
195.0	-	-	-	206.0	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		FL1(New)	1
190.0	-	-	-	200.0	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		FL1(New)	2
199.0	-	-	-	210.0	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		FL1(New)	3

## TENSILE TEST

Elongation(%)	UTS (N/mm <sup>2</sup> )	YS(N/mm <sup>2</sup> )	Material	Sample Preparation	Specimen Code	Specimen ID	Item
2.3	404.0	363.0		NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	FL 0 (NEW)		1
1.2	370.0	-		NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	FL 0 (NEW)		2
1.2	355.0	-		NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	FL 0 (NEW)		3

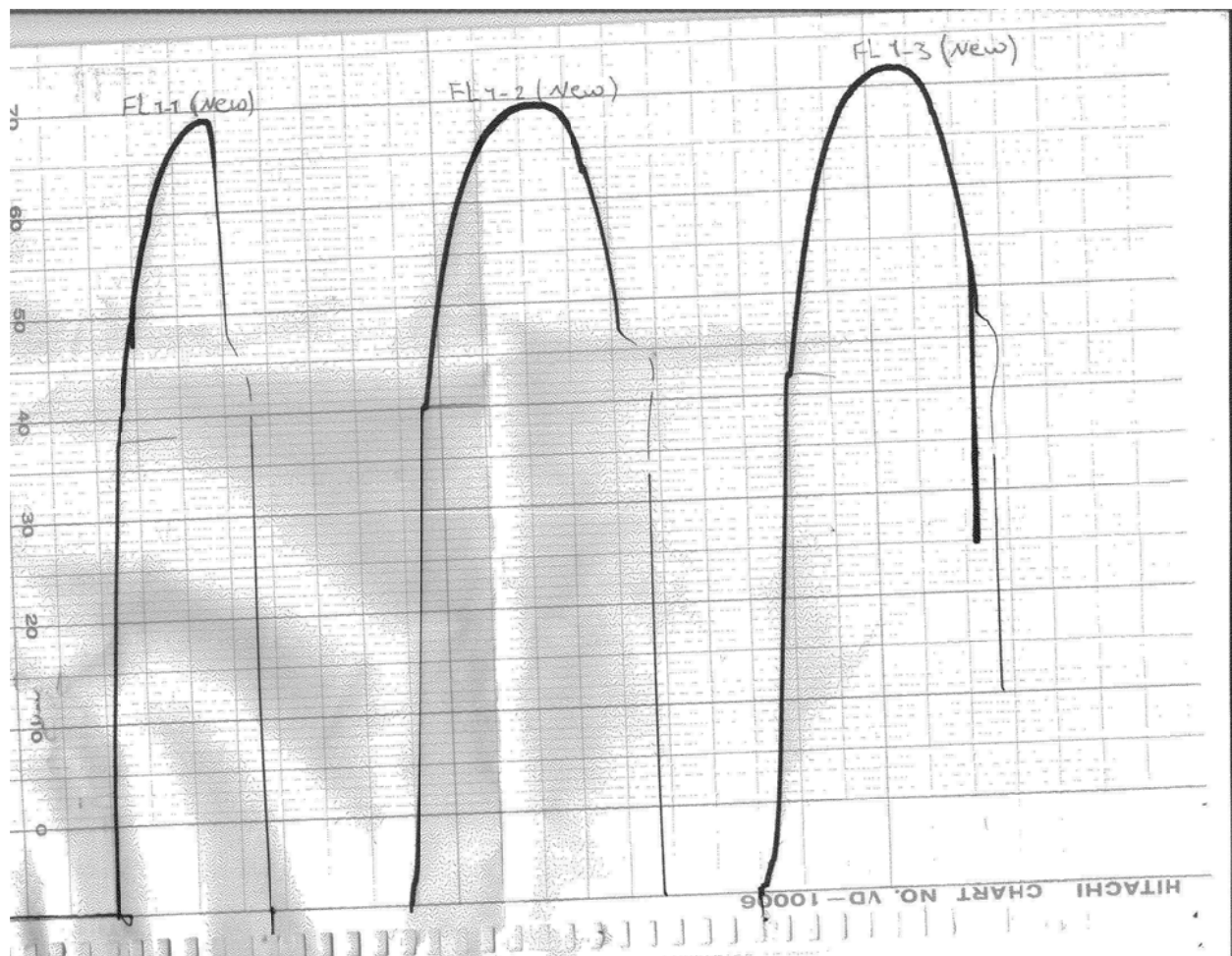
Elongation(%)	UTS (N/mm <sup>2</sup> )	YS(N/mm <sup>2</sup> )	Material	Sample Preparation	Specimen Code	Specimen ID	ردیف Item
13.0	562.8	336.0		NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	FL 1 (NEW)		1
28.0	566.0	352.0		NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	FL 1 (NEW)		2
28.0	581.0	364.0		NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	FL 1 (NEW)		3

## IMPACT TEST

Room Temperature: 25°C±2			ASME SEC IX						
Impact Energy		Test Temperature	Test Method		Sample Preparation	Specification	Specimen Code	Specimen ID	Item
			(IZOD)	(CHARPY)					
51.0	(Weld)		-	✓	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		FL 0 (New)		1
55.0	( Weld )		-	✓	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		FL 0 (New)		2
51.0	( Weld )		-	✓	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		FL 0 (New)		3

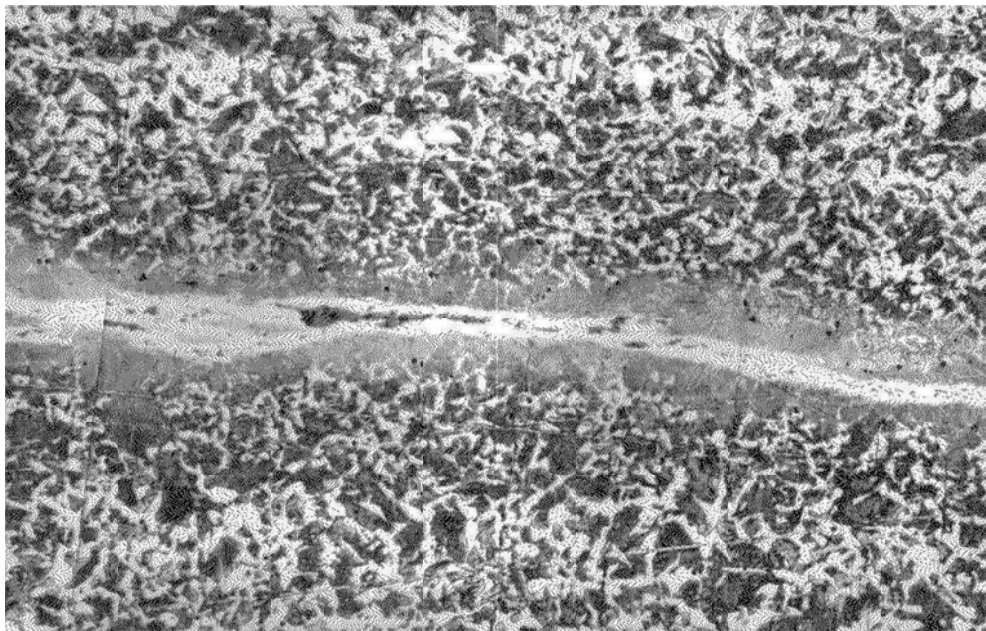
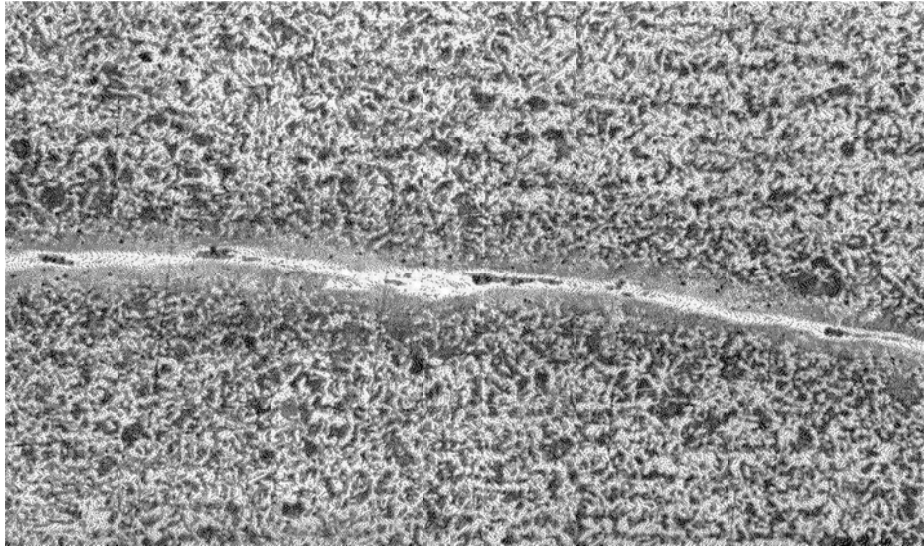
Room Temperature: 25°C±2			ASME SEC IX						
Impact Energy (J)		(°C) Test Temperature	Test Method		Sample Preparation	Specification	Specimen Code	Specimen ID	Item
			(IZOD)	(CHARPY)					
32.5	(Weld)		-	✓	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		FL 1 (New)		1
50.0	( Weld )		-	✓	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		FL 1 (New)		2
44.0	( Weld )		-	✓	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		FL 1 (New)		3

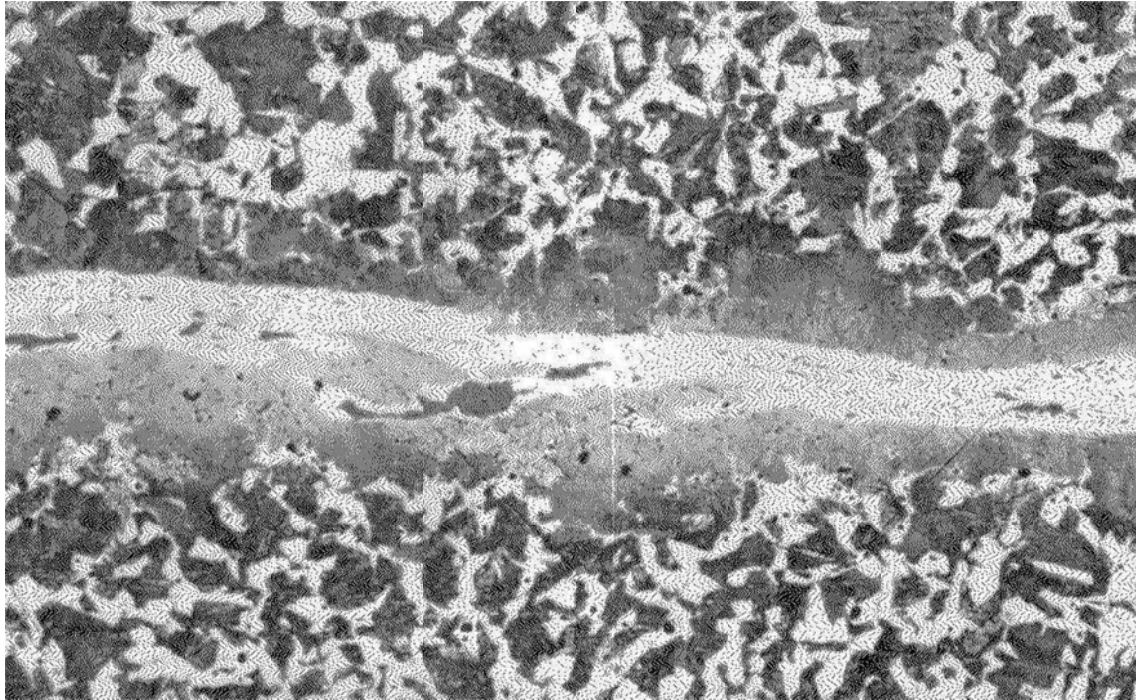
## TENSILE DIAGRAM



METALOGRAPHY (CRACK INDICATED IN NEW FLANGE)

SOME OXIDES ARE SEEN INSIDE THE CRACK





## CHEMICAL COMPOSITION

Fe%	C%	Si%	Mn%	P%	S%	Cr%	Ni%	Mo%	Cu%	W%	Ti%
97.647	0.282	0.589	1.117	0.010	0.011	0.049	0.000	0.016	0.154	0.036	0.000
V%	Al%	Co%	B%	Nb%	Pb%	Zr%	Sn%	Sb%	As%		
0.000	0.036	0.012	0.000	0.014	0.000	0.000	0.010	-	0.000		