

Inspection Certificate According to EN 10204,type 3.1.B Certified Material Test Report		Hikari Plant Nippon Steel & Sumikin Welding Co.,Ltd.	
Test Report No.: 54304		Purchaser : Norsk Sveiseteknikk AS	
Date of issue : Mar. 31, 2005		Purchaser's Spec.No.: 144N0087A Rev.0	

1.Materials

Trade Designation	AWS	EN	Size	Manufacturing No	Manufacturing Date
NITTETSU. SF-1A	A5.20 E71T-1M	EN 758 T 42 2 P M 1 H5	1.2 mm	5Y222FP960	Feb. 8, 2005

2.Welding Conditions

Base Metal (mm)	SM490A 20tx250wx300ℓ	Welding Position	Flat	Hydrogen Content of Deposited Metal	
Current DC(+)(A)	270	Kind of Gas	80%Ar+20%Co ₂	Acc. to ISO 3690	
Voltage(V)	27	Flow Rate of Gas (ℓ/min)	25	HDM(mℓ/100g)	Ave.
Travel Speed (cm/min)	25	Preheat/Inter-pass Temp. (°C)	RT(22)/ 149	2.6 , 2.8 , 2.6	2.7
Wire extension (mm)	25				

3. Test results of All-Weld-Metal

Tension Test	Conditions	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation(%)
	AW	559	588	26.2

Impact Test (J)	Conditions	Temp. (°C)	Ind. Value	Ave.
	AW	-18	81, 81, 69	77

Chemical composition (%)																
C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Ti	B	Al	As	V	Sb	Pb	Nb
0.04	0.52	1.26	0.018	0.011	0.28	*	*	*	*	*	*	*	*	*	*	*

*Below specified maximum

Other elements of the Date Sheet : Below specified maximum
S.P and N of the strip : Below specified maximum

Statement :

We hereby certify that the contents of this report are correct and accurate, and all operations performed by us or our subcontractors are in compliance with the requirements of the DATA SHEET No.: 144N0087A Rev.0

UAE AL NASR ENG.60118

Certified by YASUTOSHI NAKADA
Group Manager, Quality Control Dept.

This is electronically made and is not signed.