



Steel Grade : WNRI.4404	Specification : EN 10216-5	Customer :
Size : OD 26.67 mm X WT 5.56 mm X 6000 mm	Edition/Addenda : 13	
Article : SEAMLESS STAINLESS STEEL PIPE & TUBE	Delivery Condition : SOLUTION TREATMENT COLD FINISHED, PLAIN END	Supplier : HYOSUNG CORP.
Heat No. : N13671	Melting Process : E.A.F. - VOD/AOD - STRAND CASTING	Purchase order No : PO002081
		REF.CD #1:INSPECTION STAMP : [SK], #2:D4/T3 3/4" X SCH160

Inspection Items	Chemical Composition (wt. %)										Nonmetallic Inclusion ASTM E45 Method A								
	C	Si	Mn	P	S	Ni	Cr	Mo	N										
Spec. Min.						11.000	16.500	2.000											
Spec. Max.	0.030	1.000	2.000	0.0400	0.0150	13.000	18.000	2.500	0.1000										
Ladle Product	0.019	0.455	1.563	0.0308	0.0071	11.059	16.808	2.055	0.0442										
Product	0.020	0.458	1.579	0.0309	0.0068	11.088	16.853	2.055	0.0448										

Inspection Items	Tensile Test (N/mm ²)				Hardness (HRB)		Impact Test				Decarburized Layer		Grain Size	Micro Structure	Ultrasonic Test
	YS0.2%	YS1.0%	TS	EL(%)			Type					DM-T	DM-F		
Spec. Min.	190	225	490	40											
Spec. Max.			690			90									
0000-1	265.0	305.0	570.0	48.0		74.0									
0000-2	250.0	300.0	570.0	48.0		74.0									GOOD

Lot No.	Bundle No.	Length(m)	Number of Qt.	Total Length	Weight (kg)	Weight (lb)	Case No.	Remarks
A77P110000	A77P1100001	6-6	18	108	313	690	HA0131	<<Remark>> EN 10204 Type 3 1 / NO REPAIR WELDING. FREE FROM MERCURY CONTAMINATION FLATTENING TEST: GOOD FLARING TEST: GOOD EDDY CURRENT TEST: GOOD (DIN EN 10246-2) CORROSION TEST: GOOD (DIN EN ISO 3651-2 & ASTM A262 PRACTICE E) EN 10216-5 TC2, ASTM/ASME A312/SA312 1.4404/1.4401/TP316L/TP316 PED 2014/68/EU AND AD 2000-W0/W2(WT≤5.6) HARDNESS ACC.TO NACE MR 0175 / 0103 / ISO 15156 / SIZE TOLERANCE D4/T3(CFD) MATERIAL IDENTITY TEST(PMI) GOOD. VISUAL & DIMENSION CHECK: GOOD NO RADIOACTIVITY CONTAMINATION HEAT TREATMENT: 1050°C FOR 10 MIN (WATER COOLING)
TOTAL			18		313	690		

We hereby certify that the material described herein has been made in accordance with the rules of the contract.
Our quality system is certified in accordance with ISO 9001:2008 by DNV GL.

Certified by *Hyong Jun Kim*
Manager of Quality Assurance Team.

