



**Factory Add:**  
No 257-4, SEOKJEONG-RI, DAEGOT-MYEON, GIMPO-SI, GYEONGGI-DO, KOREA  
ROSSI FORGING INDUSTRIES.



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# INSPECTION CERTIFICATE

EN10204 / 3.1 2004 -ASME B16.5 -2003

Certificate No.  
2013789259

Date: 03/ 04 /2013

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<b>Client – Customer.</b> Samsung Chemical Ind.		<b>PO No.</b> SM-PO-1278	<b>Material Specification.</b> ASTM A182 F53 S 32750 , NACE MR 0175-05				<b>Marking.</b> DN" Class Mat SCH B16.5 Heat No				<b>Additional Marking.</b> NACE MR 0175				
Item No.	Quantity PCs	Description & Dimension	Heat No (Lot No)	Mechanical Properties, ASTM A 370-2008a										Hardness Test HB	Remark
				Tensile Test				Impact Test ,V-Notch ,							
				Yield Strength MPa	Tensile Strength MPa	Elongation %	Reduction Area %	1 (J)	2 (J)	3 (J)	AV (J)	Temp °C			
01	40	WN 8" 2500# S120 RTJ	4797(N01)	611	824	25	49							240	OK
02	57	WN 6" 1500# S120 RTJ	4797(N02)	608	834	28	48							246	OK
03	181	WN 4" 1500# S120 RTJ	4797(N02)	608	834	28	48							246	OK

Heat No.	Ladle Chemical Analysis Results												Heat Treatment.		
	C%	Si%	Mn %	P %	S %	Cr %	Mo %	N %	Cu %	Ni%	PREN			Solution Treat and Water Quench	
4797	0.013	0.349	0.819	0.024	0.0003	24.56	3.69	0.269	0.184	6.56	41			<b>Notes.</b> -Visual and dimensional check , OK -PMI Testing Full, OK -Color Coding, OK -RTJ: Smooth Finish 63 µin, OK -NACE Application, OK -Material Ref ASTM A182-2008a, OK -Pitting Corrosion Test, ASTM G48 Method A 2011, OK	

<b>Remark</b>	1) Steel made by VIM+ESR										Date		03/04/2013
	2) Material will be free from any contamination on Shipment										QC Inspector		R. LEE

We hereby certify that material described herein has been tested and satisfied as above in accordance with the appropriate specification.

RFI-QC-MTC-R0

**FOR PUBLIC RELEASE**

This Certificate is issued by a computerized system and is valid without stamp and signature.