

To John Fall  
 needs to follow  
 any questions call  
 Pat: X8044

John

Thanks,

Can you send me the material certification data for the tee castings. I need to submit with castings to Princeton.

Bill,

-----Original Message-----  
 From: John E. Puhl [mailto:johnp@jppatern.com]  
 Sent: Thursday, January 23, 2003 1:57 PM  
 To: Bill Norris  
 Cc: jnotes; Jennifer Barcus  
 Subject: Tee Castings Material Certifications (JP20021186)

BN

Thanks,

Please fax chem certs (and mech props if we have them) to John at 781-7698 right away Friday morning.

Patl,

From: Bill Norris  
 Sent: Thursday, January 23, 2003 4:22 PM  
 To: Patl Hernandez  
 Subject: FW: Tee Castings Material Certifications (JP20021186)

Patl Hernandez

Customer: JF PATTERN  
 Customer P.O. F20021186-01A  
 Part Number SE1405-003-02  
 2&9

Alloy: CF 8M NON MAG  
 Spec: WF, PRINCETON  
 Part Name

File Number: 532230  
 Date: 1-24-03  
 Plate Number: 25612

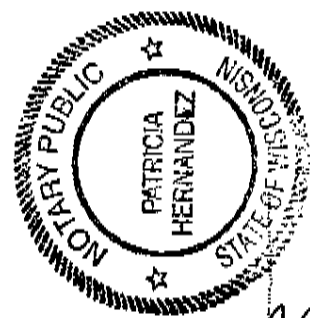
Heat Number: X 955  
 Number Pieces: 1  
 Serial Nos.:

Elements	Minimum	Maximum	C H E M I C A L C O M P O S I T I O N			P E R C E N T
C		.08	.04			
MN		1.50	.38			
SI		1.00	.49			
P		.040	.011			
S		.040	.010			
CR	17.00	18.50	17.63			
NI	14.00	18.00	14.09			
MO	2.00	3.00	2.39			

Tensile Strength, psi: 73800  
 Yield Strength, psi: 37300  
 Elongation %, in 2": 48.0

Date: 1-24-03  
 Subscribed and sworn to before me:

We hereby certify that the referenced material has been tested in accordance with the listed specifications and has been found to have the chemical and/or physical properties noted hereon.



*Patricia Hernandez*  
 Notary Public

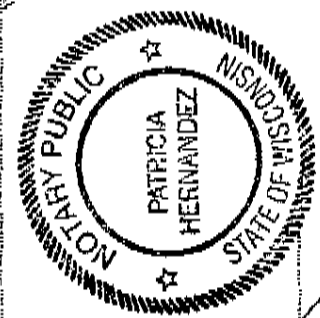
*Paul Stawicki*  
 Authorized Signature Quality Assurance

Customer: JF PATTERN File Number: 53231  
 Customer P.O. P20021186-01A Date: 1-24-03  
 Part Number SE1405-003-02 PARTIAL TEE SECTION Plate Number 25612  
 Alloy: CF 8M NON MAG  
 Spec: WF, PRINCETON  
 Part Name: X 955

Heat Number: \_\_\_\_\_  
 Number Pieces: 1  
 Serial Nos.: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Elements	Minimum	Maximum	C H E M I C A L C O M P O S I T I O N	P E R C E N T
C		.08	.04	
MN		1.50	.38	
SI		1.00	.49	
P		.040	.011	
S		.040	.010	
CR	17.00	18.50	17.63	
NI	14.00	18.00	14.09	
MO	2.00	3.00	2.39	

Tensile Strength, psi 70000  
 Yield Strength, psi 30000  
 Elongation %, in 2" 30.0



Date: 1-24-03  
 Subscribed and sworn to before me:

*Patricia Hernandez*  
 Notary Public

We hereby certify that the referenced material has been tested in accordance with the listed specifications and has been found to have the chemical and/or physical properties noted hereon.

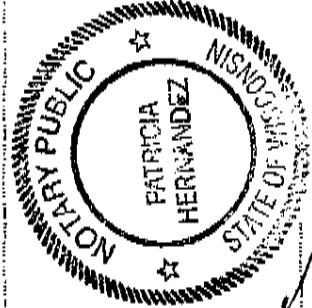
*Paul Stenich*  
 Authorized Signature Quality Assurance

Customer: JF PATTERN Alloy: CF 8M NON MAG File Number: 532332  
 Customer P.O. P20021186-01A Spec: WF, PRINCETON Date: 1-24-03  
 Part Number SE1405-003-01 Part Name: PARTIAL TEE SECTION Plate Number: 256411  
 2&9

Heat Number: X 955  
 Number Pieces: 1  
 Serial Nos.:

Elements	Minimum	Maximum	C	H	M	N	P	S	CR	NI	MO	P	PERCENT
C		.08	.04										
MN		1.50	.38										
SI		1.00	.49										
P		.040	.011										
S		.040	.010										
CR	17.00	18.50	17.63										
NI	14.00	18.00	14.09										
MO	2.00	3.00	2.39										

Tensile Strength, psi: 70000  
 Yield Strength, psi: 37300  
 Elongation %, in 2": 48.0



Date: 1-24-03  
 Subscribed and sworn to before me:

*Patricia Hernandez*  
 Notary Public

*Paul Shuch*  
 Authorized Signature

Quality Assurance

We hereby certify that the referenced material has been tested in accordance with the listed specifications and has been found to have the chemical and/or physical properties noted hereon.

Customer: JP PATTERN  
 Customer P.O. P20021186-01A  
 Part Number SE1405-003-01  
 2&9

Alloy: CF 8M NON MAG  
 Spec: WF, PRINCETON  
 Part Name: PARTIAL TEE SECTION

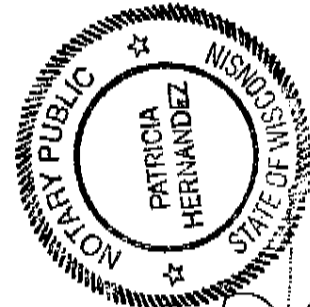
File Number: 532333  
 Date: 1-24-03  
 Plate Number: 25611

Heat Number: X 955  
 Number Pieces: 1  
 Serial Nos.:

Elements	Minimum	Maximum	C H E M I C A L C O M P O S I T I O N P E R C E N T		
C		.08	.04		
MN		1.50	.38		
SI		1.00	.49		
P		.040	.011		
S		.040	.010		
CR	17.00	18.50	17.63		
NI	14.00	18.00	14.09		
MO	2.00	3.00	2.39		

Tensile Strength, psi	70000	73800			
Yield Strength, psi	30000	37300			
Elongation %, in 2"	30.0	48.0			

Date: 1-24-03  
 Subscribed and sworn  
 to before me:



*Patricia Hernandez*  
 Notary Public

We hereby certify that the referenced material has been tested in accordance with the listed specifications and has been found to have the chemical and/or physical properties noted hereon.

*Paul David*  
 Authorized Signature      Quality Assurance

MY COMMISSION EXPIRES MAY 7, 2006