

3400 N WOLF RD  
FRANKLIN PARK, IL 60131

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T O FRANKLIN PARK, IL 60131

01 04/19/07

CUSTOMER ORDER # & DATE  
01-26457

CUSTOMER REQ. #  
DISTRICT

B PARSONS

SHIPPED FROM SYRACUSE

DESCRIPTION OF MATERIAL

SIZE  
13 RD

CRU 316/316L RT A IAC 31023  
AMC-3316-98 REV 23 ASTM-A182-06 (CHEM & MECH) A193-06A (EX PAR 6.3)  
A276-06 A479-06A ASME-SA182-04ED (CHEM & MECH) ASME-SA193-04ED (EX PAR 6.3)  
ASME-SA479-04ED AMS-5648K AMS-5653F AMS-QQS-763A UNS # S31600  
S31603 AMS-8-7720 AMD COMP 316 (EX CU) QQ-S-763F

CHEMICAL ANALYSIS

HEAT NO.

A18885

C	MN	P	S	SI	NI	CR	MO	CO	CU	N
.020	1.77	.029	.022	.59	10.11	17.05	2.19	.11	.57	.089

CASTLE METALS CORP.  
DATE RCVD 5/11/07  
IAC 31023  
APPROVED BY *[Signature]*

MECHANICAL PROPERTIES

QUANTITY

HEAT NO.

6334 # A18885

TENSILE PSI  
80,200

YLD. 2% PSI  
38,880

%ELONG4D  
55.8

RED/AREA %  
64.6

HARDNESS  
BHN 141

MACRO TEST OK

GRAIN SIZE # 4

INTERGRANULAR CORROSION TEST OK.

MATERIAL ANNEALED AT 1900 DEG. F. - WATER QUENCHED.

CRUCIBLE MATERIALS CORP. VENDOR #18610.  
MATERIAL INGOT CAST.

MATERIAL FREE FROM CONTINUOUS CARBIDE NETWORK.

NAFTA - YES

MATERIAL FREE FROM MERCURY CONTAMINATION AT TIME OF SHIPMENT  
NO WELD REPAIR PERFORMED  
MATERIAL MELTED IN U.S.A.

THANK YOU FOR SELECTING A QUALITY PRODUCT  
MANUFACTURED BY THE EMPLOYEES OF CRUCIBLE SPECIALTY METALS

THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH SPECIFICATION REQUIREMENTS.

CRUCIBLE MATERIALS CORPORATION  
ACTING BY AND THROUGH ITS SPECIALTY METALS DIVISION

SWORN TO AND SUBSCRIBED BEFORE ME THIS

DAY OF \_\_\_\_\_, 20

NOTARY PUBLIC

JACKIE L. WHITE - SPECIFICATION EXAMINER

CERTIFIED BY:

*[Signature]*  
QUALITY ASSURANCE REPRESENTATIVE