



Allegheny Technologies

1 CORROSION MATERIALS
2262 GROOM ROAD
BAKER LA

500 Green Street
Washington, PA 15301

CERTIFIED MATERIAL
TEST REPORT

OUR ORDER NO. LHM5552570
YOUR ORDER NO. 0B3289
MEMO NO. 354373-00
DATE 10/07/2009
SALESMAN NO. 373

Tracy McFarland
Tracy McFarland - Director, Corporate Quality Assurance

70714
515717T03

400 HRAP
M B127 05 ASME SB127 A0B
N04400
V-281 D AM. 2 CLASS A FORM 6

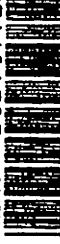
Matl ID Slip Sid Lot No
717T03 03 39019 AA 229292 1.5000 x 72.0000 x 116.0000 1 Pcs Weight(lb)
4109 1-053001500

C MN P S SI NI CU FE AL PB SN ZN CO
.113 1.01 .005 .0001 .12 63.72 32.97 1.73 .23 .001 .001 .045

No Gauge Cond. Trans Cond. Test ANNEAL Yield Strength 31.8 KSI Tensile Strength 77.0 KSI Elong % 48.0 Red. of Area % 77.0 Hardness BHN154 Bend Corrosion Grain Size

MATERIAL WAS SOLUTION ANNEALED ABOVE 1500F
MATERIAL WAS PRODUCED WITHOUT KNOWN CONTACT WITH MERCURY
MATERIAL IS OF USA MELT AND MANUFACTURE
MATERIAL WAS NOT WELD REPAIRED
EN 10204:2005 3.1 CERTIFICATE
MATERIAL WAS ELECTRIC ARC FURNACE MELTED, ADD REFINED, AND ELECTROSLAG REMELTED

HEAT# 515717T03



TRACER# 096543

IF TEST SHALL NOT BE REPRODUCED IN FULL WITHOUT THE WRITTEN APPROVAL OF THE COMPANY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS UNDER FEDERAL LAW. TESTING WAS PERFORMED AT ALC NADCAP AND ISO/IEC 17025 APPROVED LABORATORIES LOCATED AT NATRONA HEIGHTS, BRACKENRIDGE, LATROBE, MIDLAND, AND LEECHBURG, PA FACILITIES OR A NADCAP AND ALC ACCREDITED LABORATORY. EN 10204 - 3.1 ALLEGHENY LUDLUM IS APPROVED AS MANUFACTURER ACCORDING TO AD-MERKBLATT W07R0 100 AND THE PRESSURE EQUIPMENT DIRECTIVE PED 97/23/EC.