



**Major Tool and Machine, Inc.**  
 1458 E. 19th Street, Indianapolis, Indiana, 46218  
**Welder Performance Qualification (WPQ) Record**  
 Welderqual for Windows

Welder's name	Appleby, Kenneth	Test date	10/16/89
ID Number	709		WPQ record number
Date of birth		Standard test number	Rev.
Stamp number		WPS record number	WPS115 Rev.
Company name	Major Tool and Machine, Inc.	Qualification code	ASME Section IX
Division			

**BASE METALS (QW-403)**

	Product form	Specification (type or grade)	P no.	Grp-no.	Size	Sch.	Thick. (in.)	Dia. (in.)
	Plate	Inconel 617 (UNS N06617)	43		-	-	.375	-
Welded to:	Plate	Inconel 617 (UNS N06617)	43		-	-	.375	-
Joint type	Groove							

**VARIABLES**

	Actual values	RANGE QUALIFIED
Type of weld joint	Plate - Groove	Groove and Fillet welds
Base metal	P43 to P43	P-no./S-no. 1 thru 11, 34, 4X

**BASE METAL THICKNESS**

	Groove	Fillet	Overlay	Groove	Fillet	Overlay
Plate thickness (in.)	.375	-	-	no limit	no limit	-
Pipe/tube thickness (in.)	-	-	-	no limit	no limit	-
Pipe diameter (in.)	-	-	-	2.875 min	no limit	-

**PROCESS VARIABLES**

	Actual values	RANGE QUALIFIED
Welding process	GTAW	GTAW
Type	Manual	Manual
Backing	With	With
Filler metal specification	5.14	5.xx
Filler metal classification	ERNiCrCoMo-1	Any
Filler metal F-number	43	34,41..45
Filler metal variety (QW-404.23)	Bare (solid)	Solid, metal cored
Consumable insert	None	Without
Number of layers deposited		
Weld deposit thickness (in.)	.375	0.75 max
Weld position (Actual position tested)	3G	
Groove - Plate & Pipe >24"		F,V
Groove - Pipe 2.875" to 24"		F
Groove - Pipe < 2.875"		-
Fillet - Plate & Pipe >24"		F,H,V
Fillet - Pipe 2.875" to 24"		F,H,V
Fillet - Pipe < 2.875"		F,H,V
Progression	Vertical up	Vertical up
Backing gas	Without	With, without
GTAW welding current/polarity	DCEN (straight polarity)	DCEN (straight polarity)

**TESTS**

Type of test	Acceptance criteria	Result	Comments
Visual examination per QW-302.4	QW-194	Acceptable	see - ASME IX - QW-452.1 Note (8)
Radiographic examination per QW-191 and QW-302.2	QW-191.2	Acceptable	see - ASME IX - QW-142, QW-304

Notes

**CERTIFICATION**

Tests conducted by	INDUSTRIAL NDT	Laboratory test number	XZ 438
Mechanical tests by		Test file number	

We certify that the statements in this record are correct and that the test welds were prepared, welded and tested in accordance with the requirements of Section IX of the ASME Code.

**Welding Engineer**

Name	Signature
David Leapley	
Date	
8/2/02	