

222 Cavalcade Street, 77009-3213
P.O. Box 8768, Houston, Texas 77249-8768
Tel: (713) 692-9151 Fax: (713) 696-6205

Attention: Sam Reese
Sunshine Enterprise, Inc.
2005 Fletcher Creek Dr.
Memphis, TN 38133
P: (901) 452-0188 / F: 901/452-8688

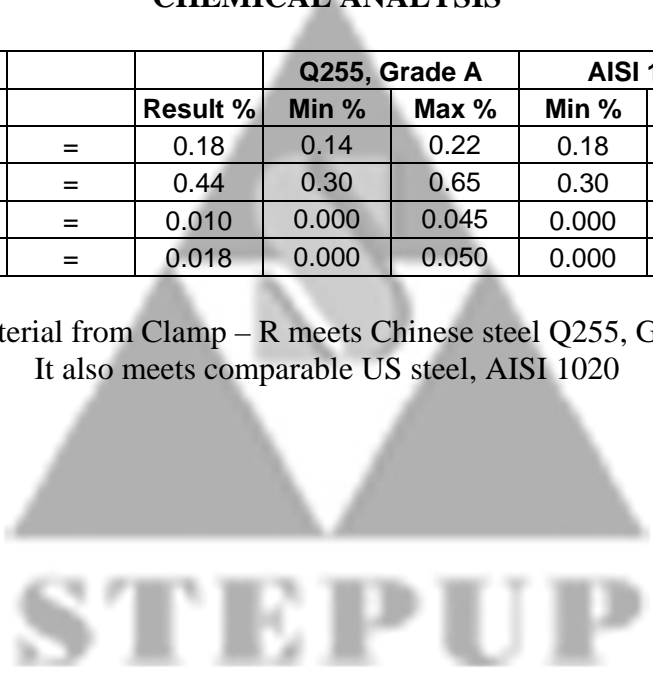
W/O. No.: SUN088-10-07-95830-1
P.O. No.:
Report Date: 10/11/2005

Identification: CLAMP - R
Description: Right Angle Coupler

CHEMICAL ANALYSIS

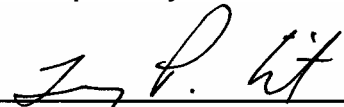
Element	=	Result %	Q255, Grade A		AISI 1020	
			Min %	Max %	Min %	Max %
C	=	0.18	0.14	0.22	0.18	0.23
Mn	=	0.44	0.30	0.65	0.30	0.60
P	=	0.010	0.000	0.045	0.000	0.040
S	=	0.018	0.000	0.050	0.000	0.050

The material from Clamp – R meets Chinese steel Q255, Grade A.
It also meets comparable US steel, AISI 1020



Our letters and reports are for the exclusive use of the client to whom they are addressed and shall not be reproduced except in full without the approval of the testing laboratory. The use of our name must receive our written approval. Our letters and reports apply only to the sample tested and/or inspected, and are not indicative of the quantities of apparently identical or similar products. Material submitted to our metals department will be discarded after a period of 30 days unless otherwise directed. Stork SWL, is an operating unit of Stork Materials Technology B.V., Amsterdam, The Netherlands, which is a member of the Stork group

Respectfully Submitted


Terry Wilt
Manager, Product Evaluation

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Identification: CLAMP – R: Right Angle Couplers
Test Method: EN74
Quantity: 2

Hexagonal head of clamp bolts are tightened to 38 ft. lbs. prior to loading for all tests.

SLIP LOAD

Coupler #	Slip Load (measured after 0.275" travel)
1	8,565 lbs.
2	5,124 lbs.
Average	6,845 lbs.

With 4:1 safety factor, the average slip load value is 1,711 lbs.

ULTIMATE LOAD

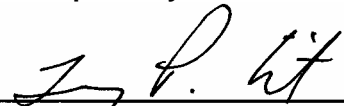
Coupler #	Ultimate Load	Failure Mode
1	14,580 lbs.	Deformation of pivot pin
2	15,150 lbs.	Deformation of pivot pin
Average	14,865 lbs.	---

With 4:1 safety factor, the average ultimate load value is 3,716 lbs.

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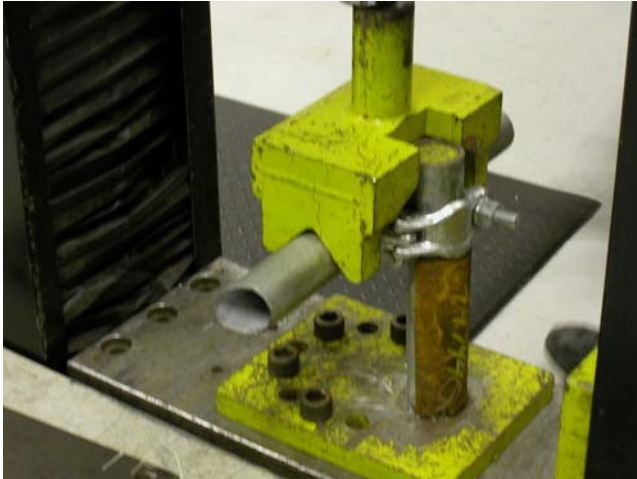
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Right angle coupler test configuration



Right angle #1. Ultimate load of 14,580 lbs



Right angle #2. Ultimate load of 15,150 lbs.

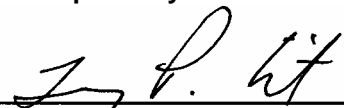


Right angle #2. Deformation of pivot pin, and forging around pivot pin

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