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TEST REPORT

REPORT NUMBER: EWA033873P-1

New Season Industrial Corp

Taipei City, 11499 TAIWAN

Date: February 27, 2015

Purchase Order Number: Wire

New Season Ind. Corp.

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New Season Ind. Corp.

PURPOSE

The purpose of this test report is to present the test results obtained during the performance of a test program. This report includes a brief description of the samples presented for test, a list of the documents presented as test instructions, and a summary of the testing performed and the results obtained. Applicable requirements and conclusions are based on the criteria provided by our client, or as specified in the reference document(s). All results relate only to the items tested, as listed within this report.

WORK REQUESTED / REFERENCE DOCUMENT(S)

Handcuff NIJ Standard 0307.01(82)

SAMPLE DESCRIPTION

One (1) model (5 pairs) of metallic handcuffs were presented by New Season Industrial Corp for testing. Handcuffs, as received, were identified as follows:

Model Number	Serial Numbers
NS2000	100330, 100580, 100060, 100250, 100170

SAMPLE CONDITIONING

Prior to testing, the samples were conditioned at +23°C ±2°C and 50% ±5% relative humidity, as applicable.

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TESTING PERFORMED

Results

Metallic Handcuffs - NIJ Standard-0307.01 (3/82)

Brand Name/ Manufacturer:New Season
Model Number: NS2000

	Handcuff Performance Requirements				
Serial Numbers	100060	100170	100250	100330	100580
4.2 User Information					
a) Operating Instructions	Pass	Pass	Pass	Pass	Pass
b) Type of finish	Pass	Pass	Pass	Pass	Pass
c) Weight	Pass	Pass	Pass	Pass	Pass
d) Materials of construction	Pass	Pass	Pass	Pass	Pass
e) Certificate of compliance	Pass	Pass	Pass	Pass	Pass
4.3 Marking					
A) Manufacturer's Name or Trademark	Pass	Pass	Pass	Pass	Pass
or Model Number:	Pass	Pass	Pass	Pass	Pass
B) Serial Number	Pass	Pass	Pass	Pass	Pass
4.4 Workmanship					
a) Finish not specified	Pass	Pass	Pass	Pass	Pass
b) Finish scratched, damaged or marred exposing base metal.	Pass	Pass	Pass	Pass	Pass
c) Foreign matter embedded in finish	Pass	Pass	Pass	Pass	Pass
d) Corroded Area	Pass	Pass	Pass	Pass	Pass
e) Finish not smooth, Continuous or	Pass	Pass	Pass	Pass	Pass
Adherent (ex. Pitted, Peeled, Flaked	Pass	Pass	Pass	Pass	Pass
excessive buildup of finish or discolored)	Pass	Pass	Pass	Pass	Pass
f) Any missing part, broken, malformed,	Pass	Pass	Pass	Pass	Pass
loose or not in proper alignment	Pass	Pass	Pass	Pass	Pass
g) Rivet or pin insecure or secured neatly	Pass	Pass	Pass	Pass	Pass
h) Any burr, silver, sharp edge, dent or tool mark	Pass	Pass	Pass	Pass	Pass
I) Metal split, cracked, or crazed	Pass	Pass	Pass	Pass	Pass
j) End of pin set below exposed plate surface	Pass	Pass	Pass	Pass	Pass
k) Crack or incomplete welding	Pass	Pass	Pass	Pass	Pass
l) Marking is missing, illegible, incorrect or	Pass	Pass	Pass	Pass	Pass
not permanent	Pass	Pass	Pass	Pass	Pass
m) Key cannot unlock handcuff or requires	Pass	Pass	Pass	Pass	Pass
undo force to do so.	Pass	Pass	Pass	Pass	Pass
n) Handcuff cannot be double locked	Pass	Pass	Pass	Pass	Pass
o) Handcuff does not lock automatically with	Pass	Pass	Pass	Pass	Pass
the pawl	Pass	Pass	Pass	Pass	Pass
p) Any malfunctioning in the opening or closing of the handcuffs (e.g.: ratchet binds or does not rotate freely)	Pass	Pass	Pass	Pass	Pass

Jewmason Inc.com.

Handcuff Performance Requirements
Model Number: NS2000, Continued

Serial Numbers		100060	100170	100250	100330	100580
4.5 Weight						
Shall not exceed 425 g (15 oz.)		282 g	282 g	282 g	282 g	283 g
4.6 Dimensions						
Minimum opening 50 mm	R	51 mm	51 mm	51 mm	51 mm	51 mm
Minimum opening 50 mm	L	51 mm	51 mm	51 mm	51 mm	51 mm
Minimum inside perimeter-200 mm with the ratchet engaged at the first notch.	R	215 mm	215 mm	216 mm	215 mm	215 mm
	L	215 mm	215 mm	215 mm	215 mm	215 mm
Maximum inside perimeter-165 mm with the ratchet engaged at the last notch.	R	150 mm	150 mm	150 mm	149 mm	150 mm
	L	150 mm	150 mm	150 mm	150 mm	149 mm
Maximum overall length - 240mm		197 mm	198 mm	198 mm	198 mm	197 mm
4.7 Mechanical Strength						
Handcuffs shall withstand a tensile force of 2200 N for not less than 30 seconds		Pass	Pass	Pass	Pass	Pass
Locking mechanism shall withstand a tensile force of 2200 N for not less than 30 seconds.	R	Pass	Pass	Pass	Pass	Pass
	L	Pass	Pass	Pass	Pass	Pass
4.8 Salt Spray Corrosion Resistance		Corrosion Resistance Certificate				
Handcuffs shall show no substantial corrosion and shall continue to function in a normal manner.		Pass	Pass	Pass	Pass	Pass
4.9 Cheek Plate Tamper Resistance						
Each handcuff after cheek plate torque of 23 N/m shall not be possible for the ratchet to be removed from the pivot pin, by hand or with the aid of a screwdriver and either disengaged for the pawl or displaced such that the locked handcuff may be placed on a person's wrist	R	Pass	Pass	Pass	Pass	Pass
	L	Pass	Pass	Pass	Pass	Pass

Note: Handcuff with serial number was considered right side handcuff for identification during testing.

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TEST EQUIPMENT

All test instruments were calibrated and are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) or another National Measurement Institute or through consensus standards. The Element Warren calibration system meets the requirements of ISO 17025:2005.

ID	Description	Manufacturer	Model	Calibration Due
07133	TensileTester	Instron	4201	07/25/15
07258	Load Cell	Instron	2518-805	07/25/15
10158	24" stainless steel ruler	Unknown	24"	ICO
07560	Torque Wrench	CDI	1003LDFN	09/16/15
15820	Stop Watch	Control Company	61161-350	08/02/15
14295	Scale	Sartorius	Signum 1 / SIWSBBP-1-6-H	12/18/15
EC081	Cyclic Corrosion Chamber	Q-Panel	Q-FOG/CCT 1100	10/20/15

REVISION HISTORY

Rev. #	Description/Changes	Date
0	Initial Issue	2/27/15

New Season Ind. Corp.