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【统一编码】
NS15W0026-3
证书号码(No.): FEB 25, 2021
日期(Date): Page 1 of 4

Test Report of High Strength Stranded Steel Wire(Item:N-3)

Client's Name : Hangzhou Easy Electric Wire and Cable Co.,Ltd
Client's Address: No.7, LongTan Road,Yuhang district, Hangzhou,China

Manufacturer: Hangzhou Easy Electric Wire and Cable Co.,Ltd
Description of Sample: High Strength Stranded Steel Wire (Item:N-3)
Quantity of Sample: One Sample
Test Conducted: As per ASTM A475-03 (Reapproved 2014),Class A
Standards

Average Ambient Temperature:26°C

Date of Test:14/02/2021

For and on behalf of
CCIC
中国检验

2 授权

Result of Inspection:

No.	Title of Tests	Unit	Measured/ Calculated Value
01	Nominal wire size	mm	9.52
02	Number of strands	no.	7
03	Nominal diameter of coated strands	mm	3.0
04	Variation of coated strand diameter	mm	0.04
05	Zinc coating	-	Class A
06	Minimum weight of zinc coating	gm/m ²	245
07	Minimum breaking strength of stranded wire	kgf	6064
08	Minimum elongation	%	5.3
09	Ductility of wire	-	No crack observed
10	Weight of wire	kg/km	405.9
11	Lay ratio	-	13.74
12	Lay direction	-	Left handed

For and on behalf of
CCIC TIANJIN CO., LTD.
中国检验认证集团天津有限公司

2 授权签字人 Authorized Signatory

All inspections are carried out conscientiously to the best of our knowledge and ability. This certificate does not in any respect absolve the seller and other related parties from his contractual and legal obligations especially when product quality is concerned



04. Ductility of Steel: The individual wires of the completed strand have been wrapped at 9 turns per minute, two turn were in close helices around the cylindrical was equal to three times the nominal diameter of the wire under test. No fracture has been observed.

05. Weight of Coating:

Minimum Weight of Zinc Coating, g/m ² of Uncoated Wire Surface	Sample 1 g/m ²	Sample 2 g/m ²	Sample 3 g/m ²
245	258.4	259.8	260.2

The zinc coating has been tested for weight by a stripping test in accordance with Test Method ASTM A90/A90M-13.

The Samples meets the requirements.

06. Adherence of Coating: The individual wires have been wrapped at 9 turns per minute, two turn were in close helices around the cylindrical mandrel was equal to three times the nominal diameter of the wire under test. The zinc coating observed adherent to the wire without delaminating and without being removable by rubbing with the bare fingers.

The Samples meets the requirements.

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01. Stranding:

Sample No.(s)	Diameter of Strand(s),mm	Pitch Condition	Laying Direction	Laying Ratio
1	9.52	Uniform & Close	Counter Clock-wise	13.74
2	9.50			13.74
3	9.51			13.74

The Samples meets the requirements.

02. Breaking Strength and Weight:

Minimum Breaking Strength of Strand, kN High Strength	Sample 1 kN	Sample 2 kN	Sample 3 kN
48.04	60.64	60.57	60.49

Note: The Weight of completed Strand is verified to be 407Kg/Km.

The Samples meets the requirements.

03. Elongation:

Elongation of Completed Strand 24 inched(610mm)	Sample1	Sample2	Sample3
Min.5% for High Strength Grades	5.3%	5.7%	5.3%

The Samples meets the requirements.

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07. Permissible Variations in Wire Size:

Nominal Diameter of Wire, mm	Permissible Variations, \pm mm	Sample 1 mm	Sample 2 mm	Sample 3 mm
3.05	0.10	3.00	2.99	3.01

The diameter of the zinc-coated wire forming the strand meets the requirements.

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nature(s)