



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S S & S Associates
 Lahore
 (Extension of Washing Area Located at Designtex (SMC) Pvt Ltd of Sapphire Textile Mills.)

Reference # CED/TFL **4168** (Dr. Safer Abbass)
 Reference of the request letter # SS/TST/0010

Dated: 07-11-2023
 Dated: 07-11-2023

Tension Test Report (Page -1/1)

Date of Test 13-11-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.349	10	9.18	0.12	0.103	4610	5460	84693	98980	100309	117300	0.80	10.0	
2	0.353	10	9.23	0.12	0.104	4560	5770	83775	96980	106005	122800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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To,
 M/S Professional Construction Services (Pvt.) Ltd.
 Lahore
 (ABL DR-Center, Faisalabad.)

Reference # CED/TFL **4171** (Dr. Safer Abbass)
 Reference of the request letter # PCS/23/Eng-214

Dated: 08-11-2023
 Dated: 08-11-2023

Tension Test Report (Page -1/1)

Date of Test 13-11-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.380	3	0.377	0.11	0.112	4560	5100	91400	89920	102200	100600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,

M/S DESCON

Construction of Mohmand Dam Hydropower Project – Contract No. ICB MDHP-01, Construction of Civil Works Including Design, Supply and Installation of Electrical and Mechanical Works and Hydraulic Steel Structures.

Reference # CED/TFL **4173** (Dr. M Kashif)

Dated: 07-11-2023

Reference of the request letter # MDHP-DEL-LABT-198

Dated: 04-11-2023

Tension Test Report (Page – 1/18)

Date of Test 13-11-2023

Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	15.24 (0.6")	1102.0	1139.0	24000	235.44	27200	266.83	199	>3.50	12708
2	15.24 (0.6")	1102.0	1136.0	24600	241.33	26900	263.89	198	>3.50	
3	15.24 (0.6")	1102.0	1143.0	24000	235.44	27200	266.83	198	>3.50	12709
4	15.24 (0.6")	1102.0	1142.0	24100	236.42	27100	265.85	199	>3.50	
5	15.24 (0.6")	1102.0	1143.0	24300	238.38	27800	272.72	199	>3.50	12714
6	15.24 (0.6")	1102.0	1139.0	24300	238.38	27500	269.78	198	>3.50	
7	15.24 (0.6")	1102.0	1132.0	24100	236.42	27200	266.83	199	>3.50	12716
8	15.24 (0.6")	1102.0	1142.0	24200	237.40	27500	269.78	199	>3.50	

Only Eight Samples for Test

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

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Dated: 04-11-2023

Tension Test Report (Page – 2/18)

Date of Test 13-11-2023

Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
9	15.24 (0.6")	1102.0	1144.0	25300	248.19	27700	271.74	199	>3.50	12717
10	15.24 (0.6")	1102.0	1144.0	25100	246.23	27500	269.78	198	>3.50	
11	15.24 (0.6")	1102.0	1145.0	25300	248.19	27600	270.76	199	>3.50	12718
12	15.24 (0.6")	1102.0	1140.0	24200	237.40	27500	269.78	198	>3.50	
13	15.24 (0.6")	1102.0	1144.0	24400	239.36	27600	270.76	199	>3.50	12719
14	15.24 (0.6")	1102.0	1151.0	23500	230.54	27600	270.76	198	>3.50	
15	15.24 (0.6")	1102.0	1147.0	24700	242.31	27500	269.78	199	>3.50	MC30843
16	15.24 (0.6")	1102.0	1144.0	25300	248.19	27500	269.78	198	>3.50	

Only Eight Samples for Test

Note:

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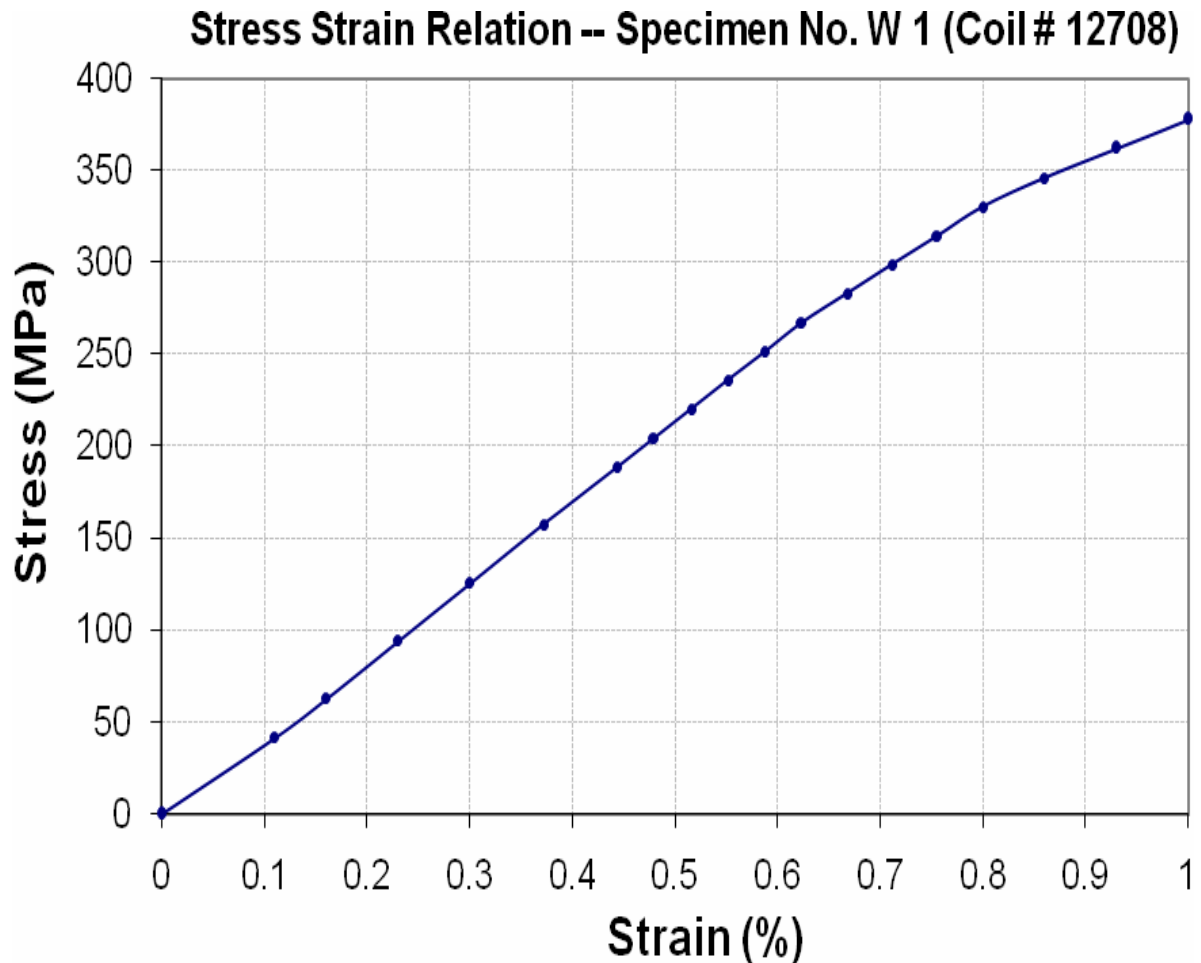
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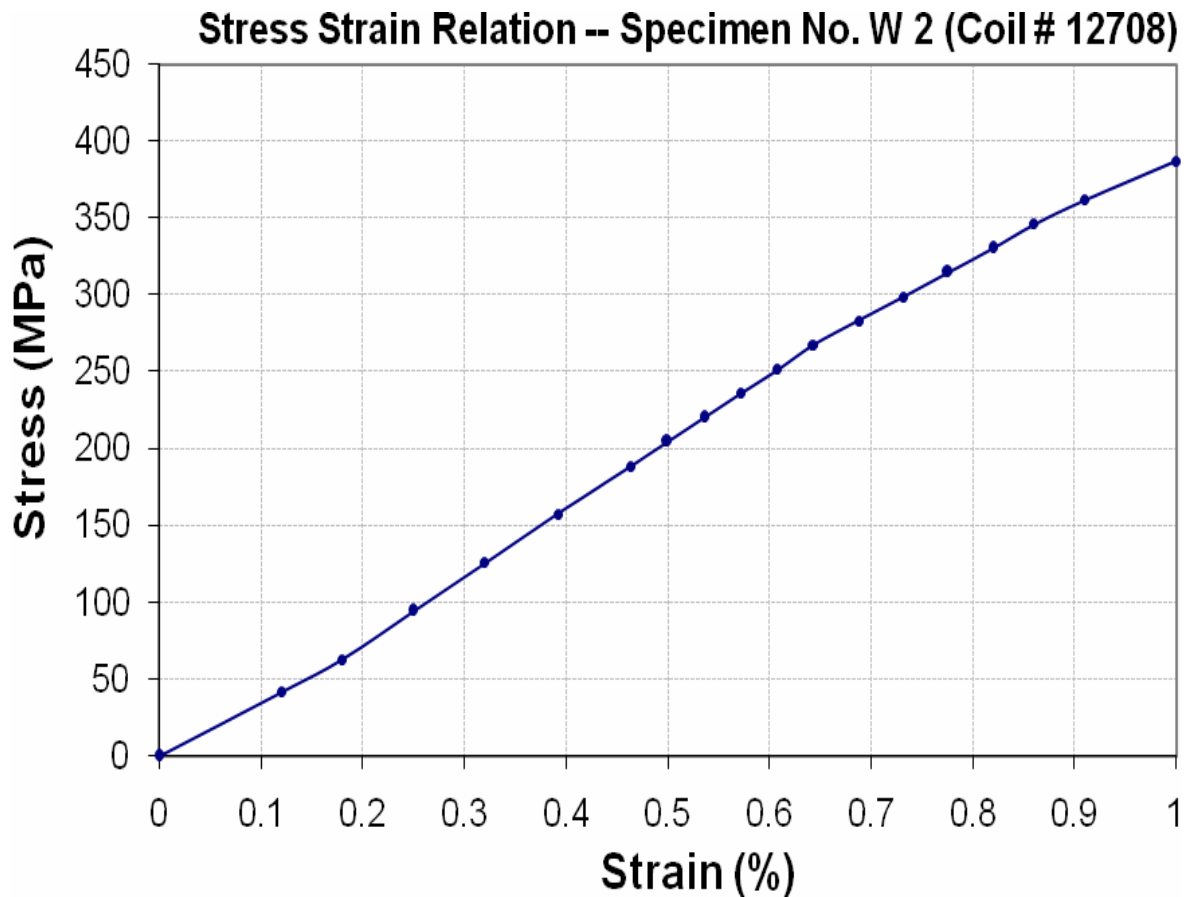
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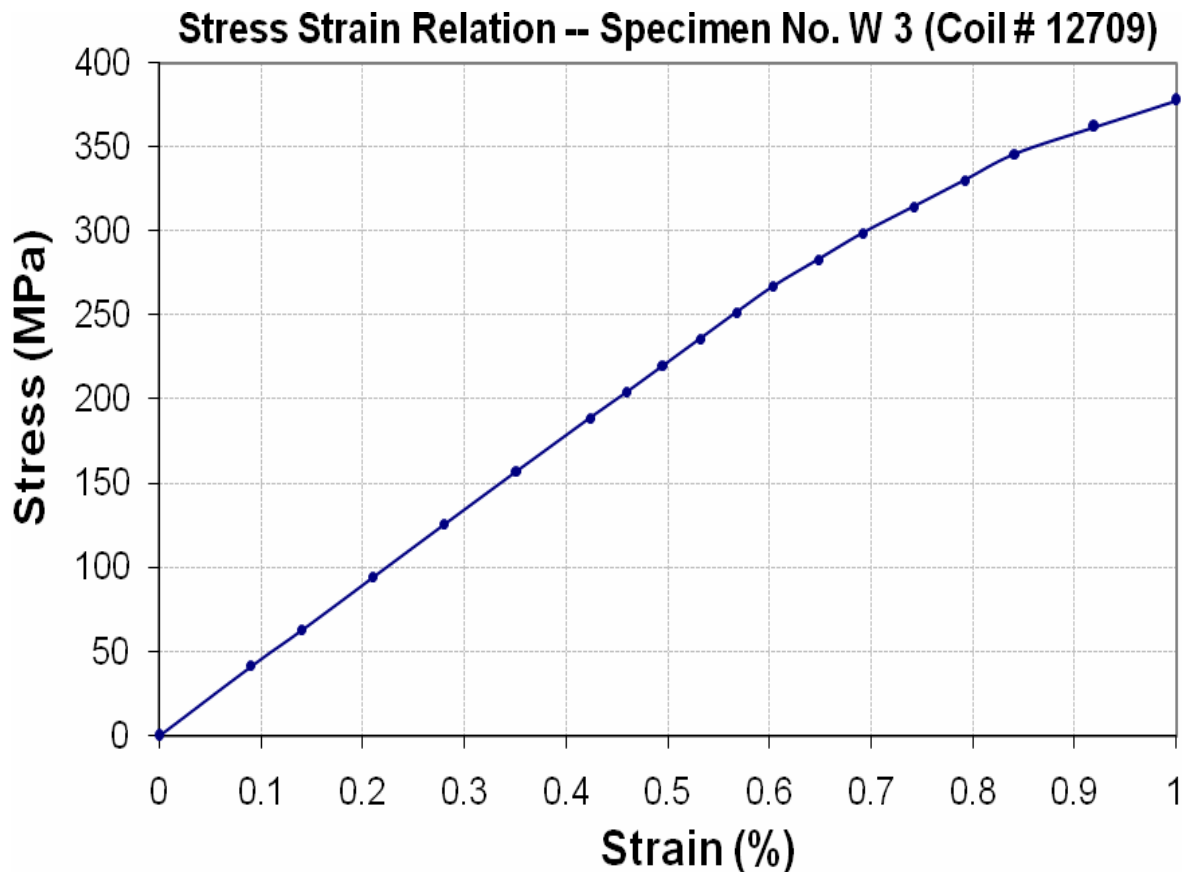
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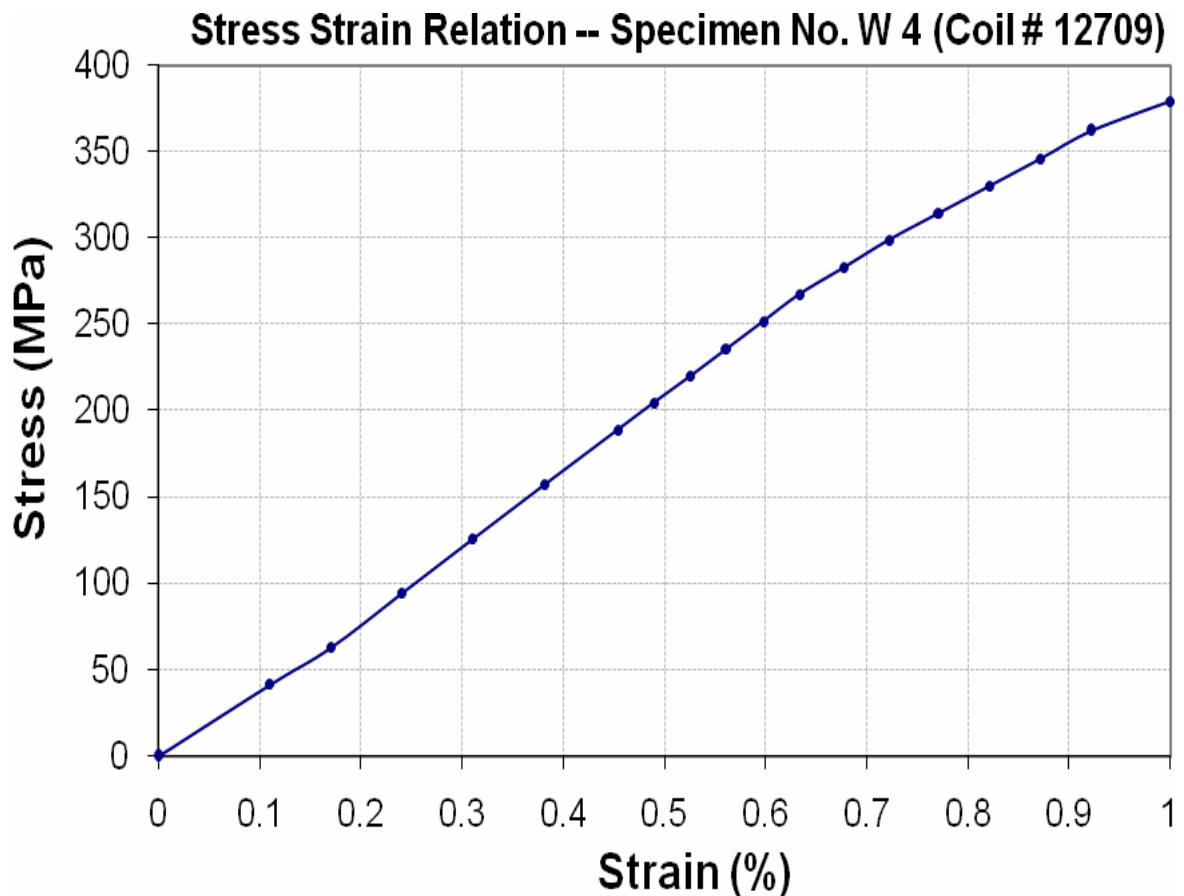
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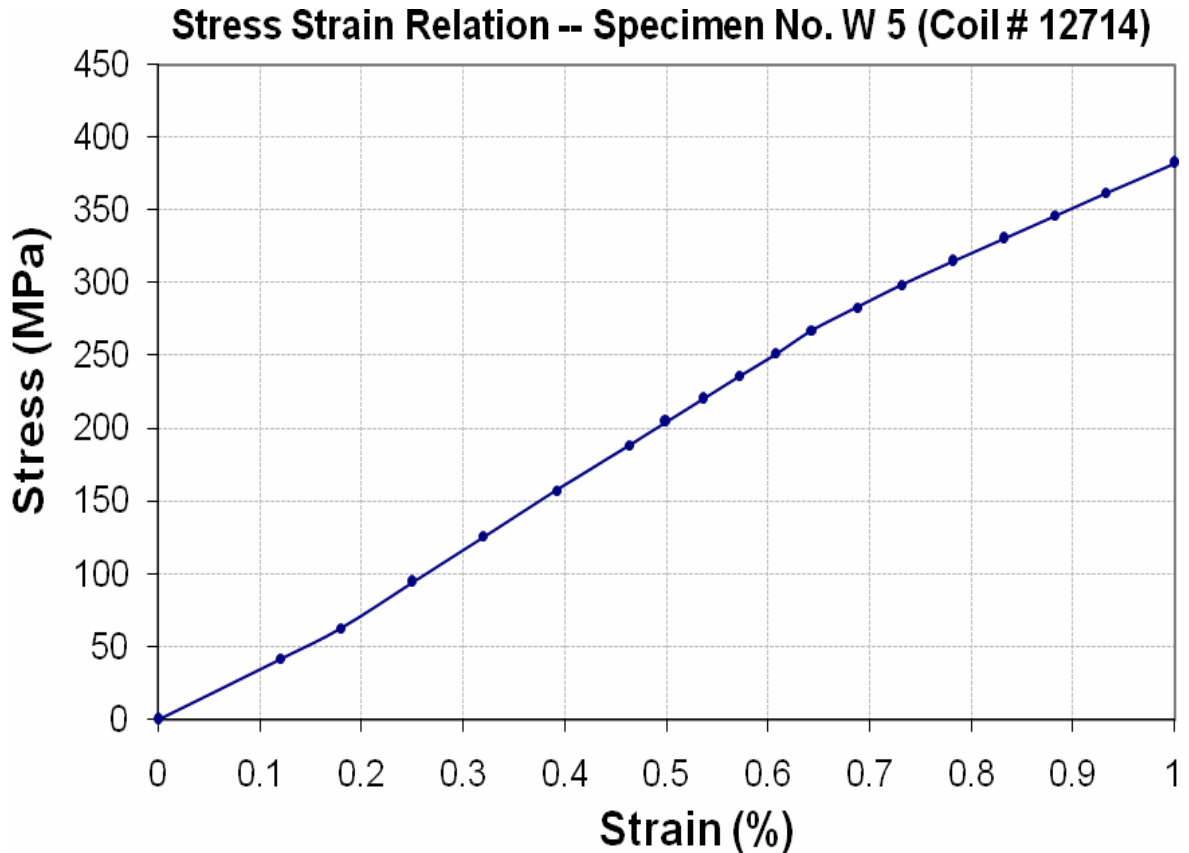
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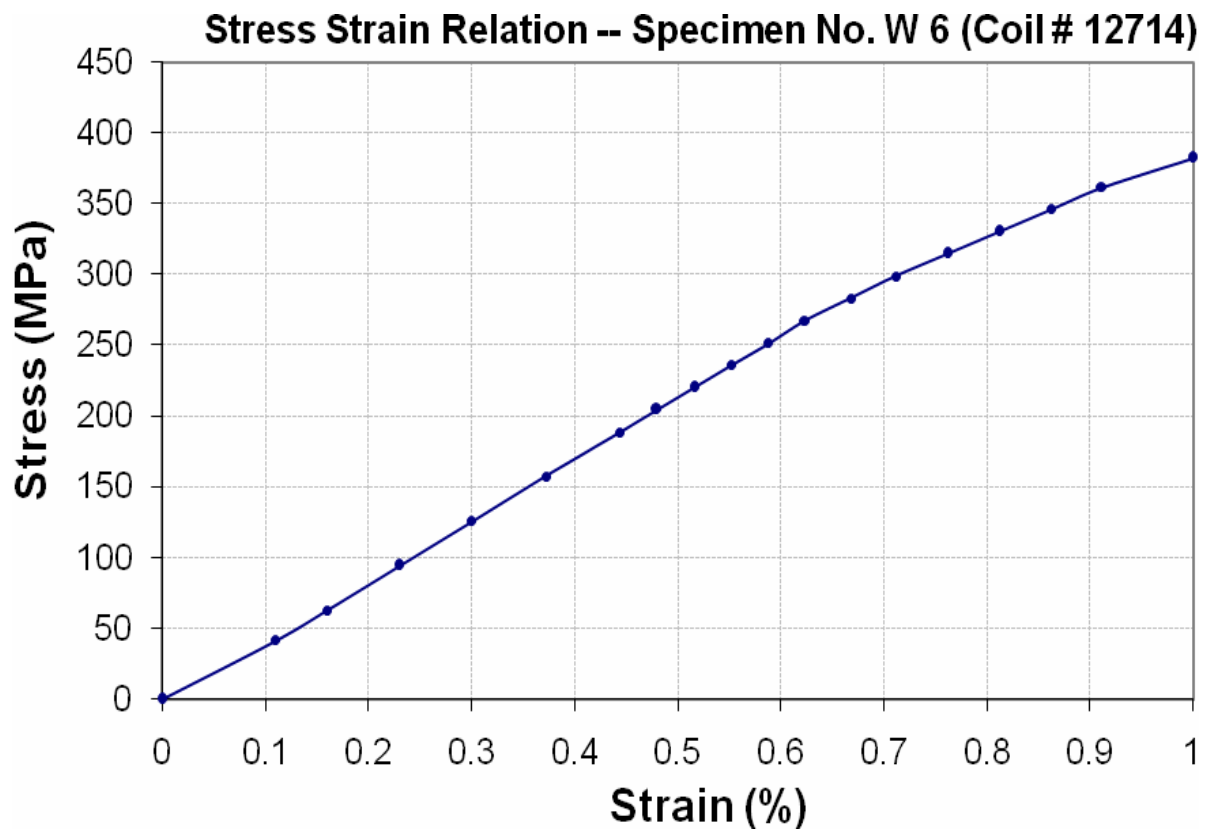
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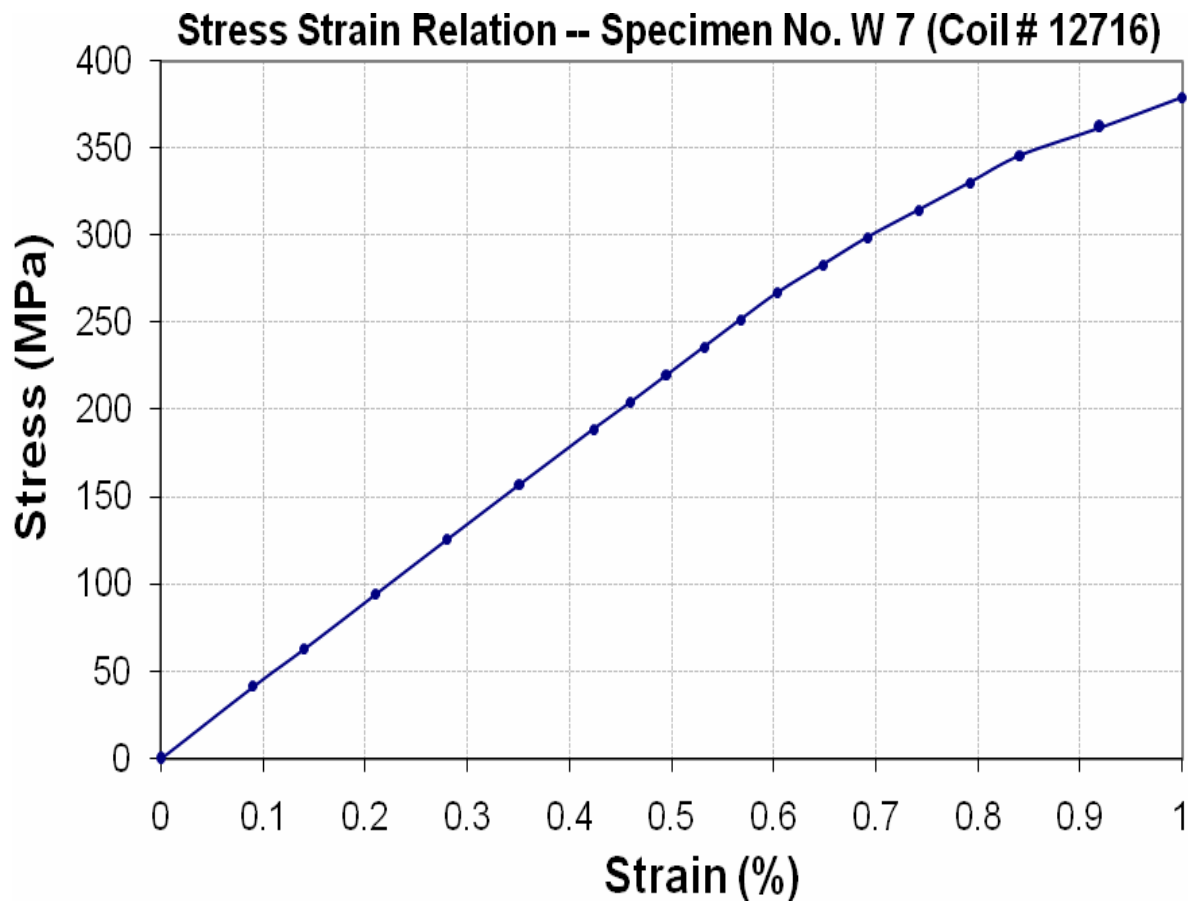
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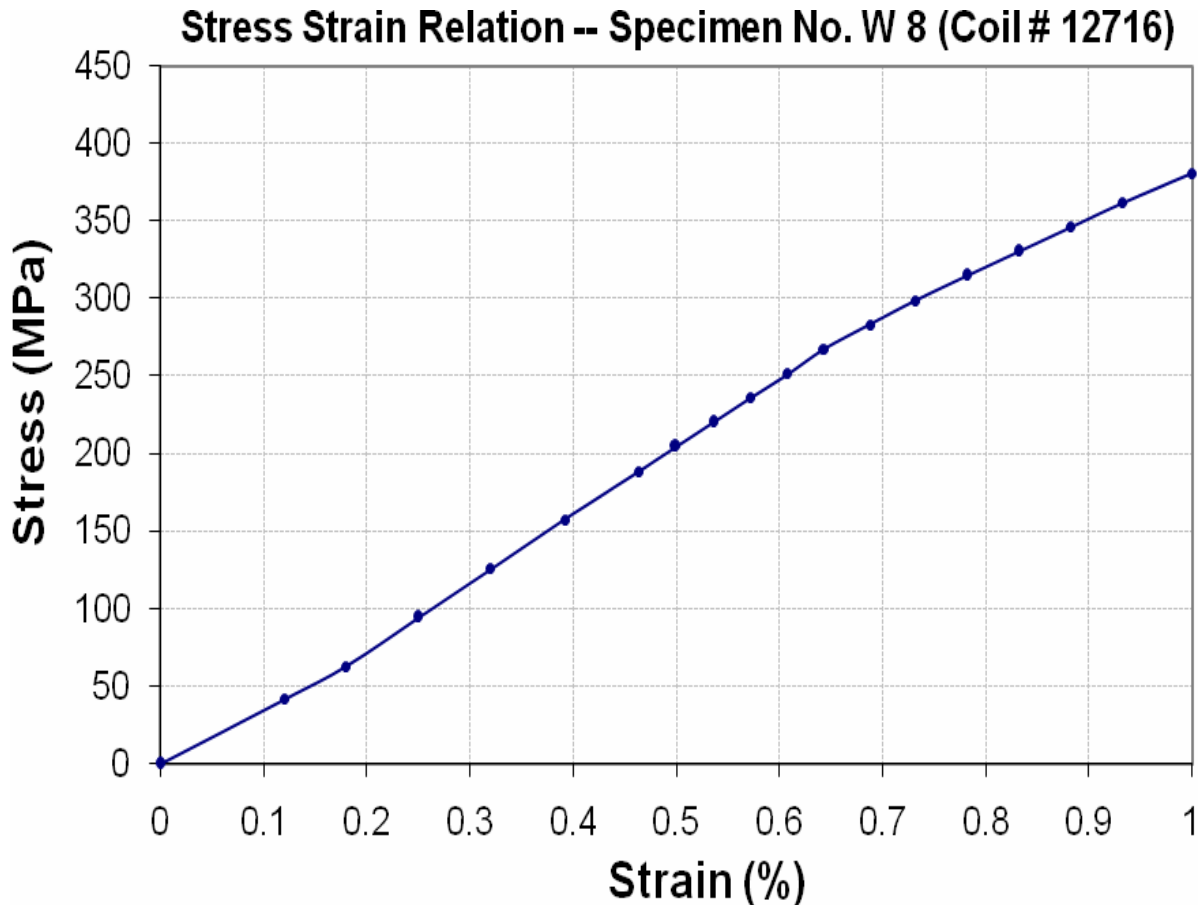
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Graph (Page –10/18)



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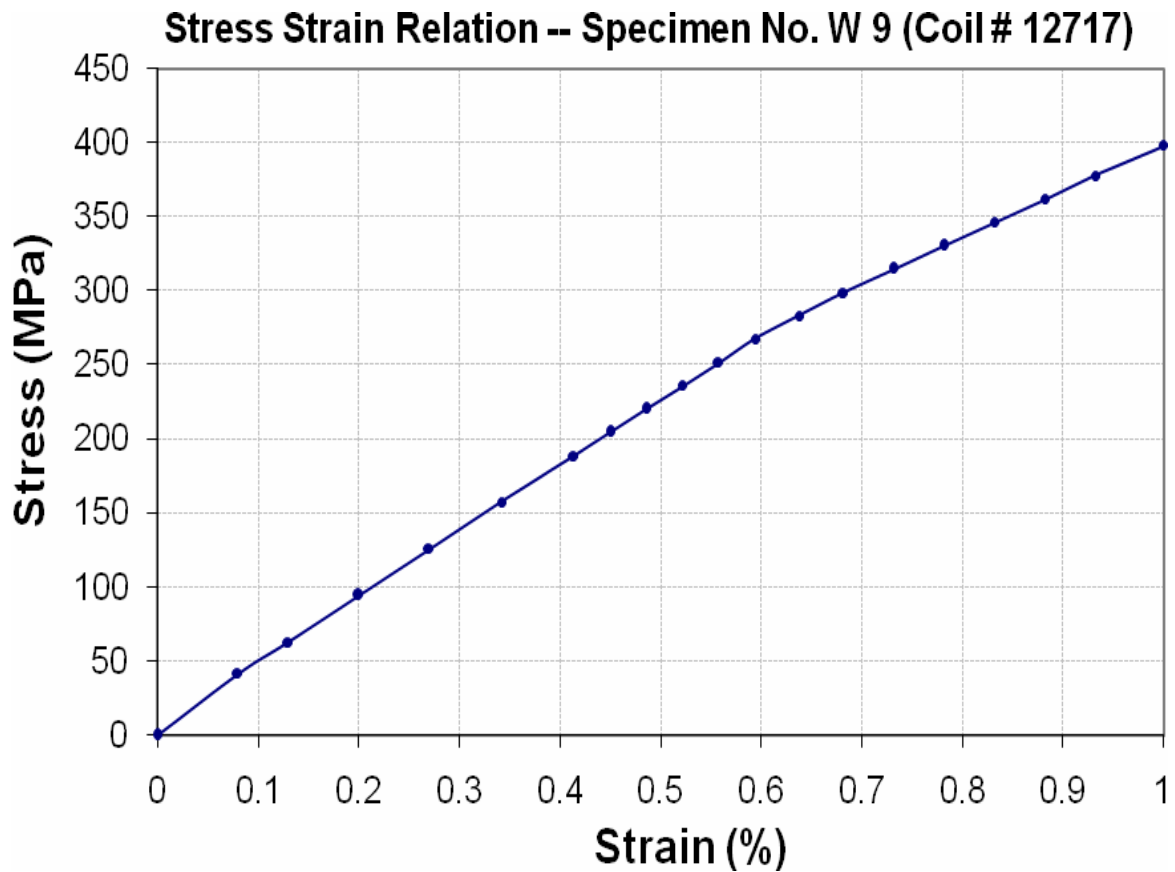
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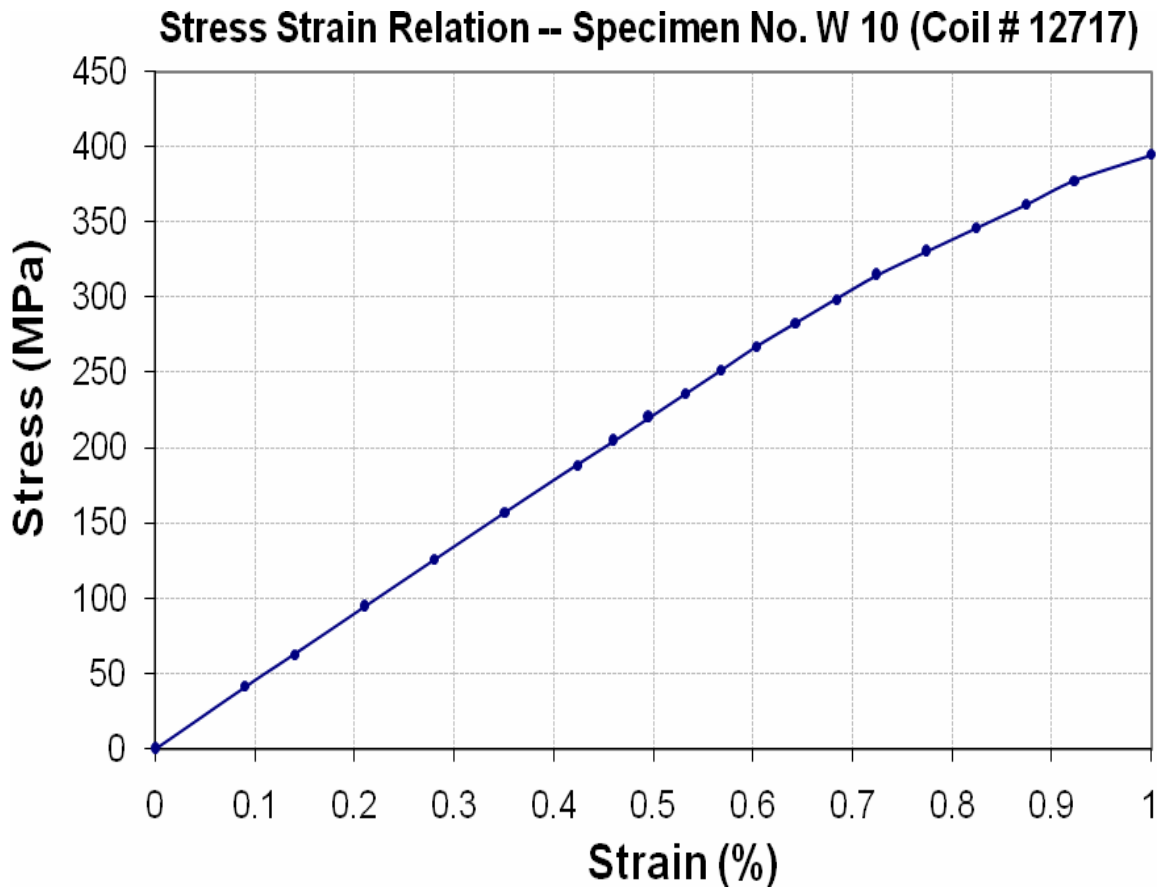
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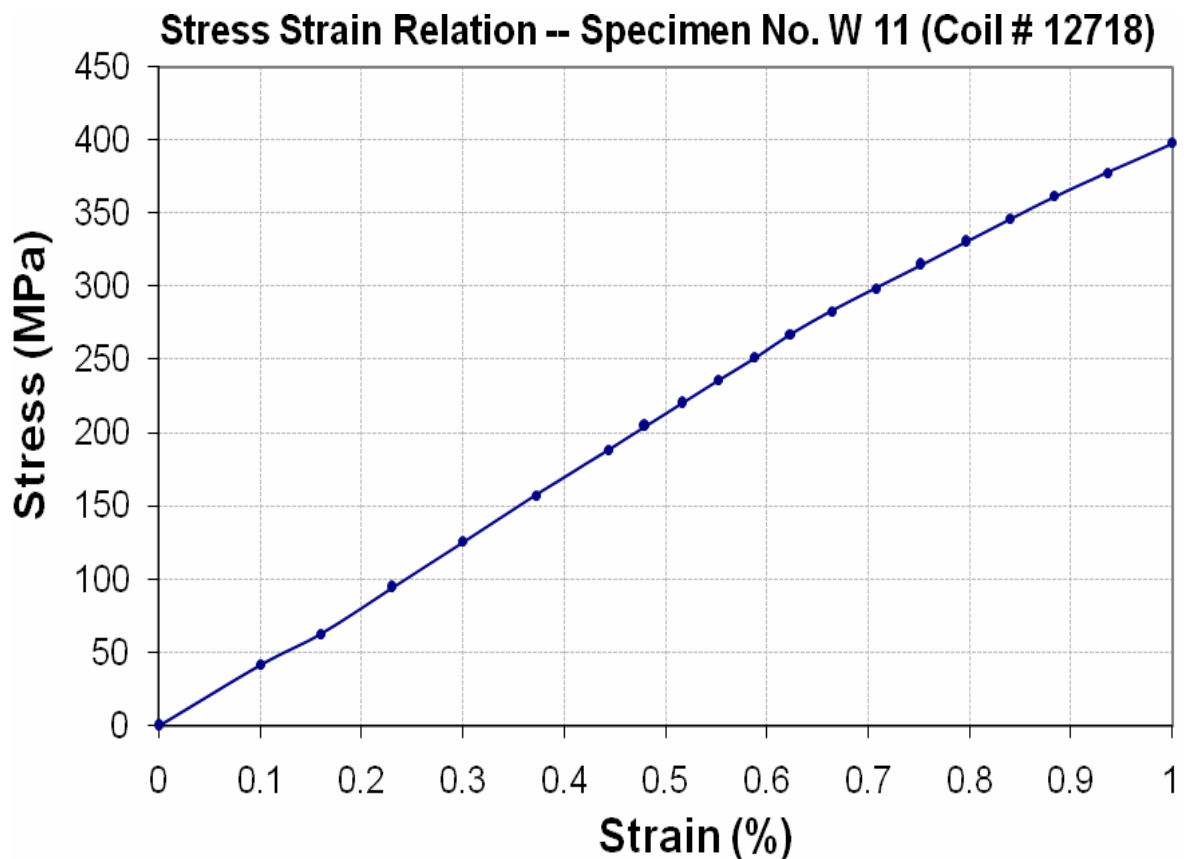
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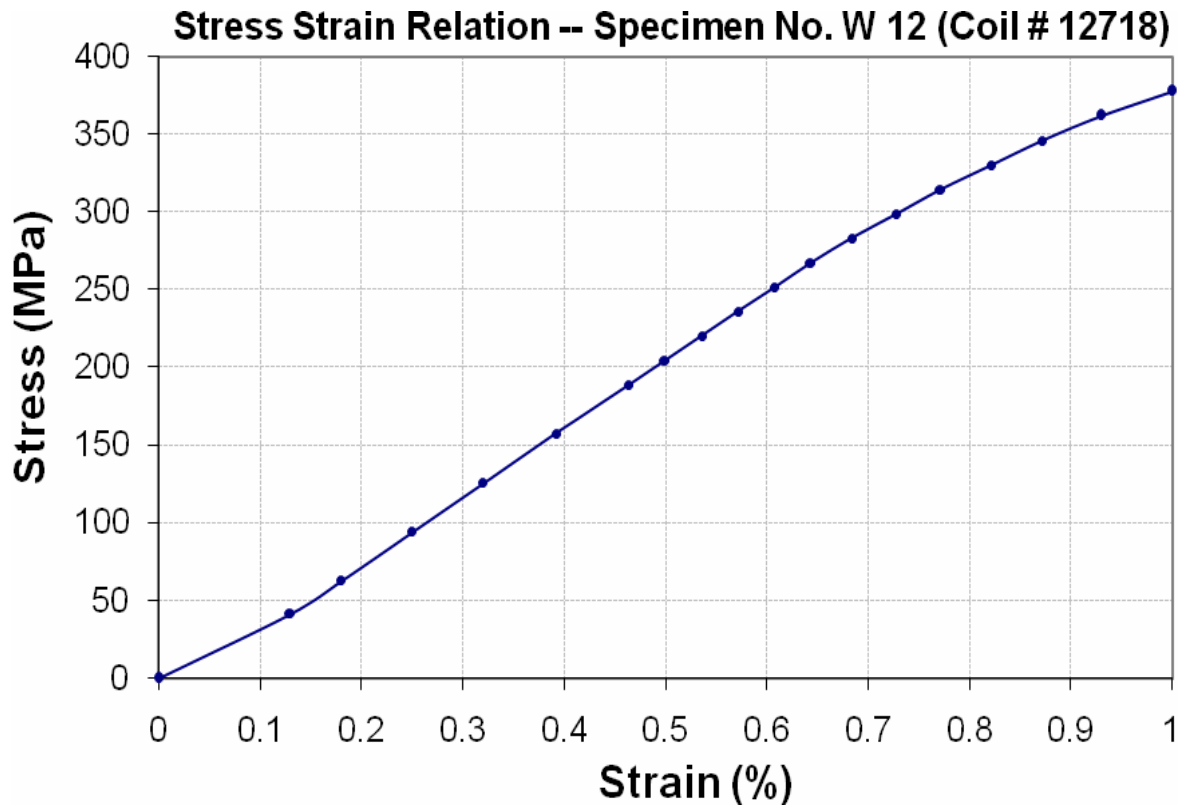
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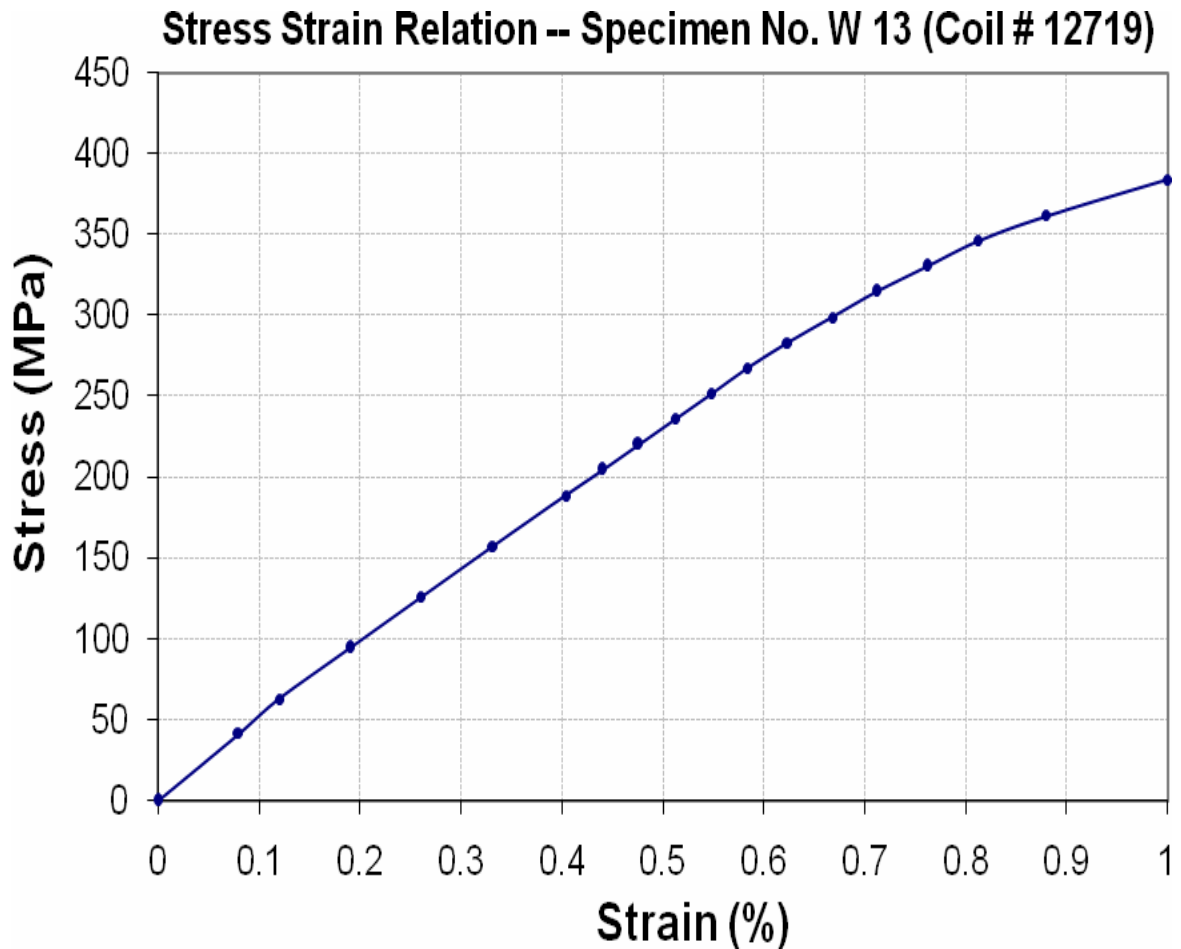
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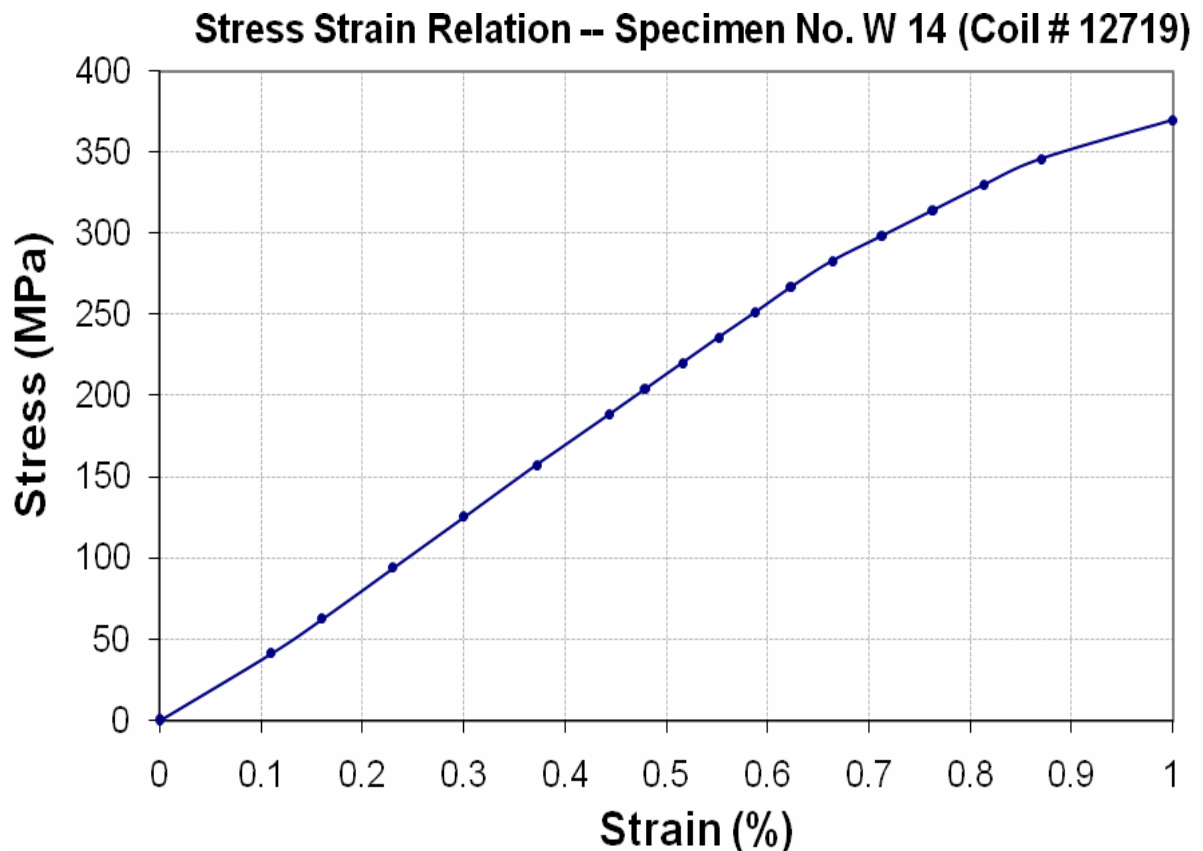
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S DESCON

Construction of Mohmand Dam Hydropower Project – Contract No. ICB MDHP-01, Construction of Civil Works Including Design, Supply and Installation of Electrical and Mechanical Works and Hydraulic Steel Structures.

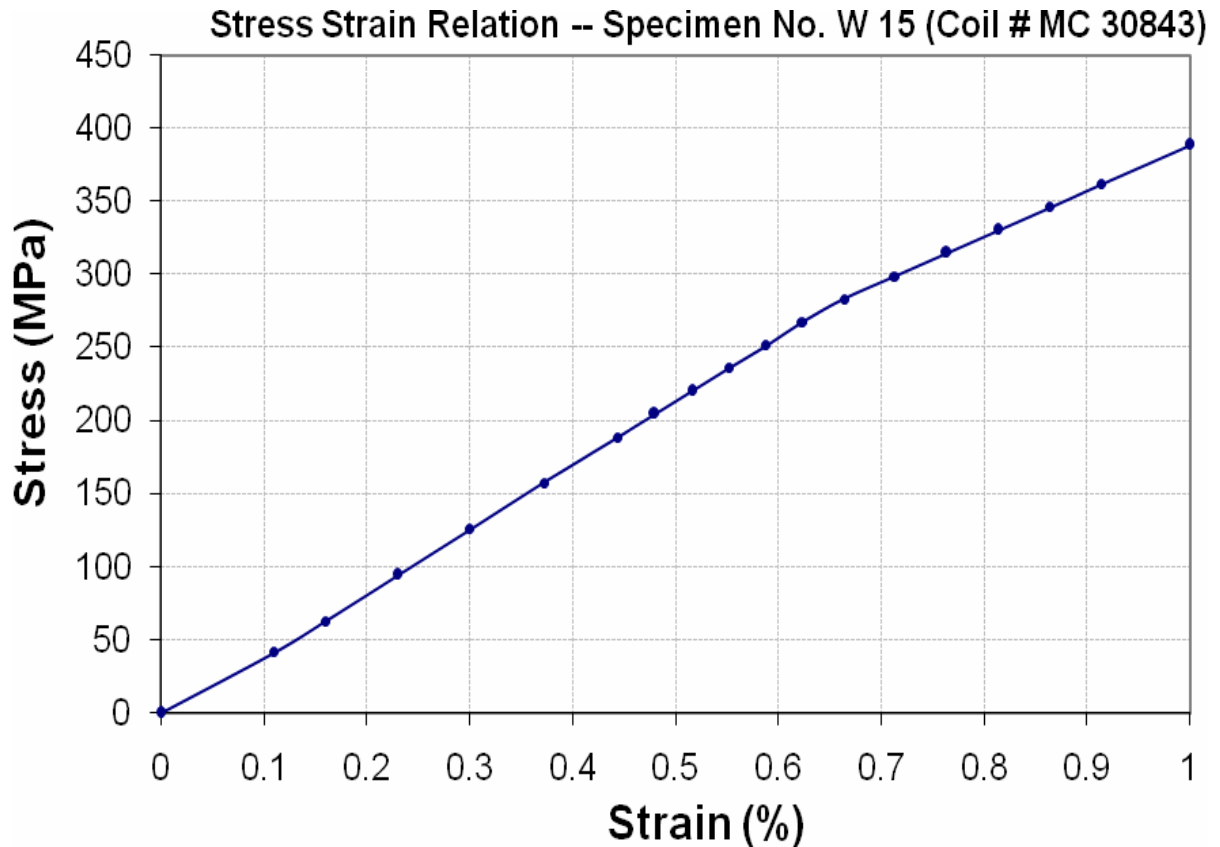
Reference # CED/TFL **4173** (Dr. M Kashif)

Dated: 07-11-2023

Reference of the request letter # MDHP-DEL-LABT-198

Dated: 04-11-2023

Graph (Page –16/18)



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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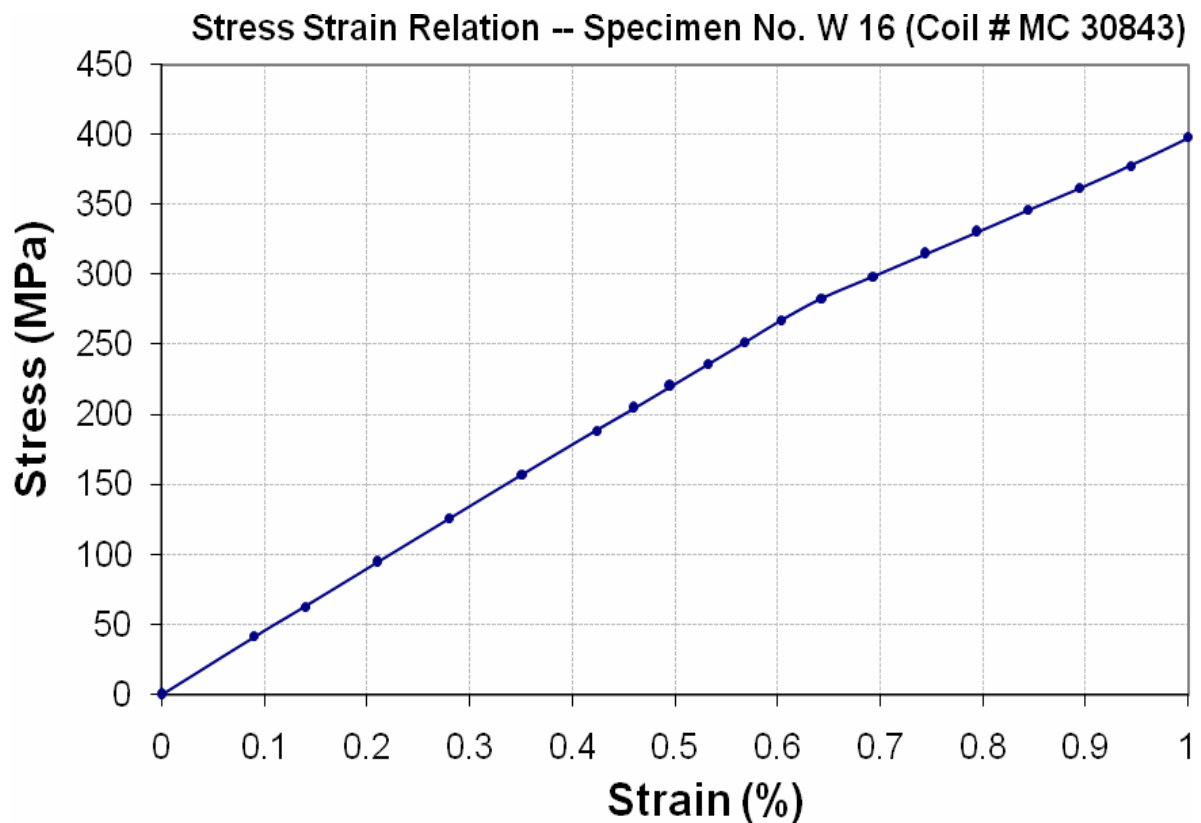
Reference # CED/TFL **4173** (Dr. M Kashif)

Dated: 07-11-2023

Reference of the request letter # MDHP-DEL-LABT-198

Dated: 04-11-2023

Graph (Page –18/18)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Resident Engineer
 ACE - ARTS (Consultants)
 Establishment of University of Applied Engineering and Emerging Technologies
 (UAEET) Sambrial, Sialkot

Reference # CED/TFL **4177** (Dr. Safer Abbass)
 Reference of the request letter # ER/UAEET/ACE/ME/51

Dated: 13-11-2023
 Dated: 13-11-2023

Tension Test Report (Page -1/1)

Date of Test 15-03-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.379	3	0.377	0.11	0.111	3720	5020	74600	73610	100600	99400	1.00	12.5	Sheikhoo Steel Heat # 10T
2	0.375	3	0.375	0.11	0.110	3690	5010	74000	73710	100400	100100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness M Umair (Material Engineer, ACE-ARTS Consultants)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Al-Ishtiaq Constructions
Mianwali

Reference # CED/TFL **4182 (Dr. Asad Ali)**
Reference of the request letter # Nil

Dated: 13-11-2023
Dated: 13-11-2023

Tension Test Report (Page -1/1)

Date of Test 13-11-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.379	3/8	0.377	0.11	0.112	3640	5450	73000	71930	109200	107700	0.90	11.3	Ittefaq Steel
2	0.382	3/8	0.378	0.11	0.112	3670	5500	73600	72080	110200	108100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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