



Client : Engr. Md. Tanjidul Islam
Sr. Manager, Quality Control
GPH Ispat Limited.

24 December 2024
MME-0325/2024-25

Client's Reference : Nil; 30/10/2024
Nil; 23/12/2024

BRTC Reference : 1103-34835/MME/2024-25; 30/10/2024

Subject : Test of Supplied Sample

Sample Condition : Not Sealed

Revised



v00t2u10c33

Please Note: The client supplied the sample and the result given herewith corresponds to the sample tested only. The Department of Materials and Metallurgical Engineering of BUET takes no responsibility regarding the misidentification, if any, of the sample.

TEST REPORT

Set No. 2 CHEMICAL COMPOSITION OF DEFORMED REBAR

Sample Description/ Frog Mark	Chemical Composition, wt.%										CEV*
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	
GPH QUANTUM B500 DWR 10	0.31	0.24	0.91	0.025	0.021	0.226	0.037	0.117	0.371	0.004	0.55
GPH QUANTUM B500 DWR 12	0.31	0.26	0.97	0.023	0.020	0.163	0.026	0.100	0.327	0.004	0.54
GPH QUANTUM B500 DWR 16	0.29	0.23	0.91	0.018	0.024	0.152	0.030	0.102	0.317	0.003	0.51
GPH QUANTUM B500 DWR 20	0.25	0.23	0.92	0.020	0.018	0.268	0.044	0.127	0.323	0.003	0.50
GPH B500 DWR 22	0.31	0.26	0.88	0.031	0.021	0.173	0.020	0.063	0.224	0.009	0.52
GPH QUANTUM B500 DWR 25	0.32	0.23	0.86	0.018	0.024	0.105	0.029	0.102	0.322	0.003	0.52
GPH B500 DWR 28	0.30	0.22	0.88	0.031	0.030	0.182	0.020	0.083	0.391	0.006	0.52
GPH QUANTUM B500 DWR 32	0.29	0.22	0.85	0.016	0.023	0.154	0.034	0.108	0.302	0.003	0.50

*According to BDS ISO 6935-2 2021

Test Performed by

For

M. HANAN
24.12.24

Mr. Md. Miftaur Rahman
Assistant Professor

Countersigned by

Flashed 24 DEC 2024

Dr. H. M. Mamun Al Rashed
Professor and Head



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TEST REPORT

Set No. 3 CHEMICAL COMPOSITION OF DEFORMED REBAR

Sample Description/ Frog Mark	Chemical Composition, wt.%										CEV*
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	
GPH QUANTUM B600 D-R 10	0.35	0.25	1.23	0.019	0.023	0.149	0.043	0.149	0.269	0.003	0.62
GPH QUANTUM B600 D-R 12	0.34	0.27	1.29	0.023	0.025	0.180	0.030	0.092	0.361	0.003	0.63
GPH QUANTUM B600 D-R 16	0.33	0.30	1.27	0.017	0.017	0.146	0.026	0.097	0.368	0.003	0.61
GPH QUANTUM B600 D-R 20	0.28	0.25	1.25	0.016	0.019	0.123	0.046	0.120	0.228	0.004	0.55
GPH QUANTUM B600 D-R 25	0.34	0.24	1.24	0.020	0.024	0.120	0.035	0.120	0.373	0.003	0.61
GPH QUANTUM B600 D-R 32	0.30	0.25	1.26	0.017	0.025	0.176	0.042	0.103	0.245	0.004	0.58

*According to BDS ISO 6935-2 2021

Test Performed by

FOR M. HASAN
24.12.24

Mr. Md. Miftaur Rahman
Assistant Professor

Countersigned by

H. Rashed 24 DEC 2024

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TEST REPORT

Set No. 1 CHEMICAL COMPOSITION OF DEFORMED REBAR

Sample Description/ Frog Mark	Chemical Composition, wt.%										CEV*
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	
GPH B420 DWR 10	0.32	0.21	0.84	0.027	0.018	0.257	0.045	0.078	0.201	0.006	0.54
GPH B420 DWR 12	0.31	0.18	0.88	0.033	0.022	0.215	0.017	0.066	0.307	0.007	0.53
GPH B420 DWR 16	0.30	0.24	0.86	0.033	0.026	0.213	0.020	0.082	0.324	0.007	0.52
GPH B420 DWR 20	0.27	0.20	0.81	0.029	0.020	0.157	0.015	0.058	0.247	0.006	0.46
GPH B420 DWR 25	0.30	0.23	0.84	0.022	0.023	0.182	0.035	0.141	0.422	0.004	0.52
GPH B420 DWR 32	0.28	0.23	0.83	0.032	0.027	0.120	0.017	0.069	0.283	0.007	0.47

*According to BDS ISO 6935-2 2021

Test Performed by

For M. HASAN
24.12.24

Mr. Md. Miftaur Rahman
Assistant Professor

Countersigned by

H. Rashed 4 DEC 2024

Dr. H. M. Mamun Al Rashed
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