



Test Report

Testing Method : High Strain Test of Compression

Date : 2017/09/11

Client :

NO : AI180201

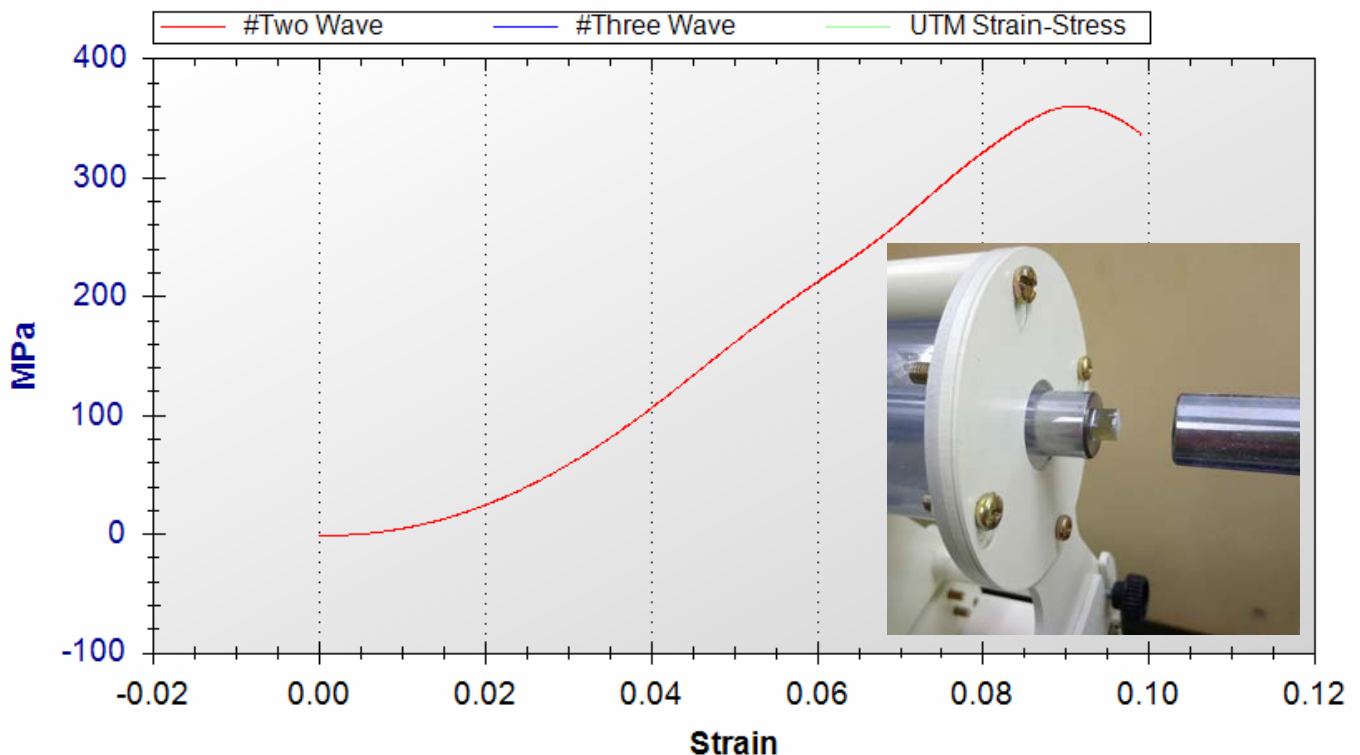
Instrument : SHB-P-12M Split Hopkinson Bar – Dynamic Compression Loading Unit

7211 Dynamic Strain Gage Amplifier

Material: GFRP (Naval Construction)

Number #	Test Piece (D*L mm)		Striker Bar (m/sec)	Strain Rate (strain/sec)	Yielding Stress (MPa)	Compressive Stress (MPa)
GFRP1_1	8.03	10.2	13	871		339
GFRP1_2			13	934		328
GFRP1_4			13	934		330
GFRP1_5			13	876		360
Average				903		339

Test Piece Strain Analysis





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Material: GFRP (Naval Construction)

Number #	Test Piece (D*L mm)		Striker Bar (m/sec)	Strain Rate (strain/sec)	Yielding Stress (MPa)	Compressive Stress (MPa)
GFRP4_1	10.2	2.53	37	4132		335
GFRP4_2			37	4123		335
GFRP4_3			37	4436		258
GFRP4_4			37	4500		259
GFRP4_5			37	5060		313
Average				4450		300

Test Piece Strain Analysis

