



Test Report

Testing Method : High Strain Test of Compression

Date : 2017/09/08

Client :

NO : AI171202

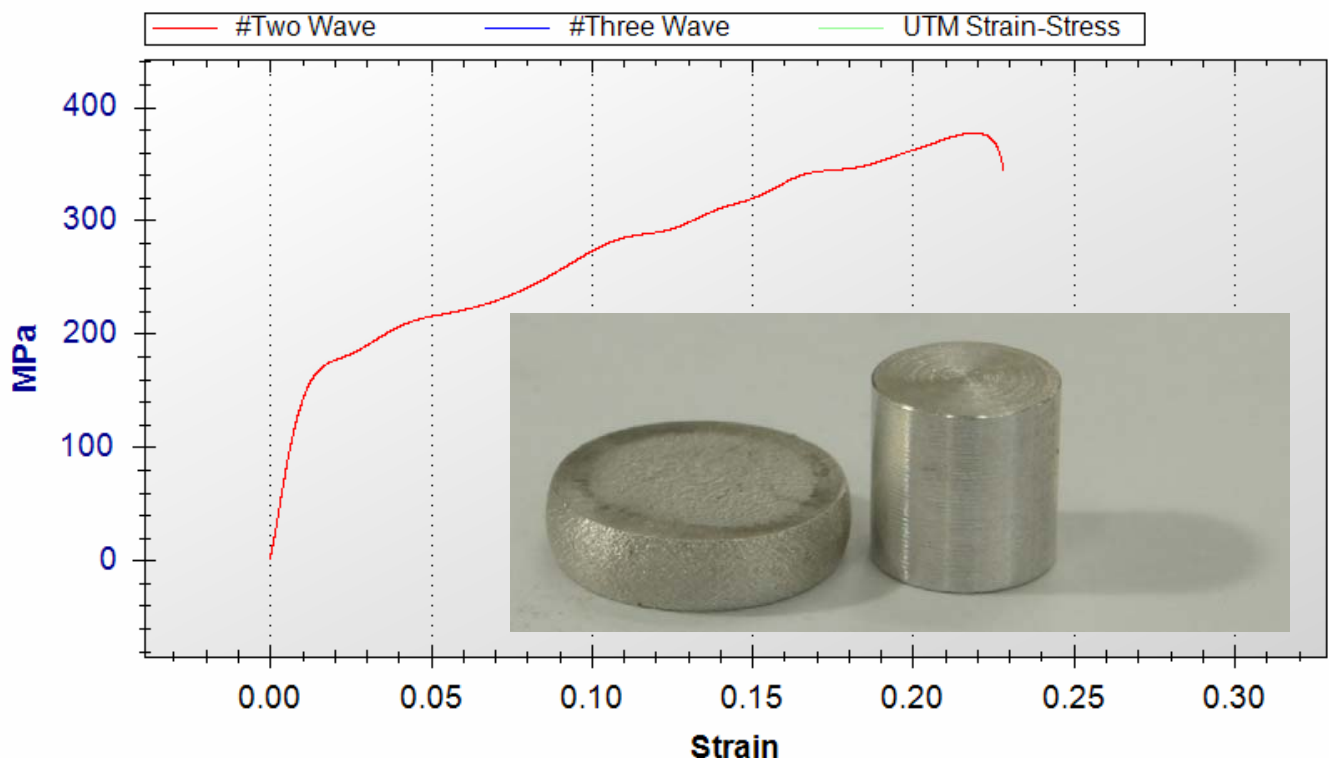
Instrument : SHB-P-12M Split Hopkinson Bar – Dynamic Compression Loading Unit

7211 Dynamic Strain Gage Amplifier

Material: Aluminium Alloys 50xx (Ship building)

Number #	Test Piece (D*L mm)		Striker Bar (m/sec)	Strain Rate (strain/sec)	Yielding Stress (MPa)	Compressive Stress (MPa)
AL1_1	10	9.7	17	1179	104	363
AL1_2			17	1179	104	363
AL1_3			17	1181	103	363
AL1_4			17	1180	103	377
AL1_5			17	1210	100	376
Average				1186	103	368

Test Piece Strain Analysis





Test Report

Testing Method : High Strain Test of Compression

Date : 2017/09/08

Client :

NO : AI180202

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

7211 Dynamic Strain Gage Amplifier

Material: Aluminium Alloys 50xx (Ship building)

Number #	Test Piece (D*L mm)		Striker Bar (m/sec)	Strain Rate (strain/sec)	Yielding Stress (MPa)	Compressive Stress (MPa)
AL5_1	10	2.3	23	6080	276	910
AL5_2			23	6505	226	887
AL5_3			23	6578	374	875
AL5_4			23	6479	392	870
AL5_5			23	6483	400	955
Average				6513	389	900

