



THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH (TISTR)
RAILWAY TRANSPORTATION SYSTEM TESTING CENTER (RTTC)

Request No. : 119/61

Date : 2 February 2018

Date of request : 25 January 2018

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REPORT ON ANALYSIS / TESTING

For

SCHIMMER METAL STANDARD CO., LTD.

1/4 Moo 7, T. Bantheaw, A. Sena, Ayutthaya 13110

Testing/analysis/investigation of : Aluminum 6063-T5

Method of testing/analysis/investigation : Tensile test according to JIS Z 2241-2011

Result of testing/analysis/investigation :-

The test results are attached.

Tested/analysed/investigated by

1. Channin Suwanrak
2.
3.

Approved by



(Anan Hasap, Ph.D.)

Director of

Railway and Transportation Technology Testing and
Development Laboratory

Examined by

S. Nalithorn
(Ms. Nalithorn Suwaporncharuwach)

This report contains 3 pages, all pages must be signed by the authorized person for report approval.

FS-RTTC-GEN-510-1-23/01/60

Remark : The above results are valid exclusively for tested/analysed samples as mentioned in this report. Publication of the results on testing and analysis is prohibited unless written permission is obtained from the governor of TISTR.



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SCHIMMER METAL STANDARD CO., LTD. has commissioned the Railway Transportation System Testing Centre, Thailand Institute of Scientific and Technological Research (RTTC/TISTR) to carry out tensile test of the Aluminum 6063-T5.

The specimens for tensile test were prepared by RTTC. The results are as follow :



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RAILWAY AND TRANSPORTATION TECHNOLOGY TESTING AND DEVELOPMENT LABORATORY (RTDL)

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Test date : 31 January 2018

Test temperature : 23 °C

Testing machine : Universal Testing Machine INSTRON 5985

The results of tensile test of Aluminum 6063-T5

Specimen	T1	T2
Thickness (mm)	3.14	3.14
Width (mm)	25.10	25.09
Cross sectional area (mm ²)	78.81	78.78
Load at 0.2% offset yield strength (N)	13,181	13,441
Maximum tensile load (kN)	15.367	15.522
0.2% Offset yield strength (N/mm ²)	167.25	170.61
Tensile strength (N/mm ²)	194.99	197.03
Tensile strength (Pound/inch ²)	28,281.35	28,577.23
Elongation (%)	12.64	12.70
Location of fracture	In the length	In the length

Remark: 1 N/mm² = 145.04 Pound/inch²



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