



TEST REPORT (Tensile test of full-size fastener or fastener/nut assembly)

Report No: HTT-20-3863
Job No: 201126-02 #
Date of Test: 27-Nov-2020
Date of 1st Issue: 30-Nov-2020
Customer Name: Fiable Fastener Limited
Customer Address: 15A and 16A on 2/F Block A, Energy Industrial Centre, 2 San Fui St., Yuen Long, N.T., Hong Kong

*Particulars of Unit-Under-Test (UUT)

Project: Quality Test PO No: Test 88604201014
Product Form: Stainless Steel Threaded Rod
UUT Size: M20 x 320 mm (length)
PO No: 88604201014
Thread Pitch: Coarse
Mark: --
Product Standard: BS EN ISO 3506-1: 2009
Grade/Class: A4-80

Test Information

Working Artifact: Universal testing machine (EQM237)
†Test Standard: BS EN ISO 3506-1: 2009

Test Result

UUT Identity	NI No	d (mm)	L ₁ (mm)	L ₂ (mm)	A _{s,nom} (mm ²)	A (mm)	R _{p0.2} (MPa)	R _m (MPa)	Fracture Location
D	--	20.0	190.69	217.16	245.00	26.5	714	830	free threaded length

#Minimum value: 6.0 600 800

Terms and Symbols

d nominal thread diameter
L₁ total length of fastener
L₂ total length of fastener after fracture
A_{s,nom} nominal stress area
A elongation after fracture ($A = L_2 - L_1$)
R_{p0.2} stress at 0.2 % permanent strain
R_m tensile strength

Tested by: LEUNG Kin Man

Approved Signatory:

KWOK Cheuk Lun YUEN Chung Kan
 YIU Yim

--- End of Report ---

* Information, where applicable, was submitted by the customer. Where no thread pitch is provided, coarse pitch is assumed.

† The tensile test also fulfils the requirements of those applicable parts of BS EN 10002-1: 2001 and BS EN ISO 6892-1: 2009.

Information, if reported, was either taken from the product standard or given by the customer.

Strength, if presented, would be calculated using nominal stress area in thread unless otherwise specified in product certificate or given by the customer.

The test was conducted at room temperature in AES® Workshop. The test results contained herein relate only to the Unit-Under-Test (UUT).

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