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TYPE OF TEST: Tensile Test

MATERIAL / SAMPLE: Self-locking clamp halves

JOB No.: MBO23E02304

DELIVERY NOTE: No. 00394 dated 17/07/2023

ORDER: Acceptance of Offer No. METBO0102723 dated 20/07/2023

DATE SAMPLES RECEIVED: 2023-07-20

CLIENT:
STANZANI S.a.s.
Via Savena Vecchia, 67
Baricella (BO), Italy

DECLARATIONS
The data contained in this test report refer exclusively to the samples delivered by the Client, as received.
The information stated under "sample identification" is provided by the Client; the laboratory assumes no responsibility for it.

Granarolo dell'Emilia, 2023-08-29

The Technician
Dr. Michele Torri

The Responsible Manager
Nicola Vicentini

SAMPLE IDENTIFICATION

Sample ID	Article Code	Description
B	120	Self-locking clamp half

The photo below shows the samples prior to testing.
Photo 1: Sample B before testing

NOTES
At the Client's request, the test samples were returned.

TEST 1: TENSILE TEST

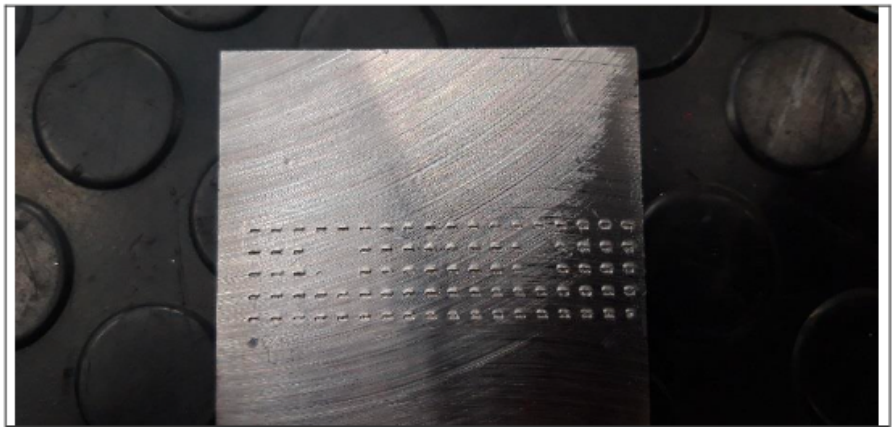
TEST DATE: 2023-08-28 / 29

TECHNICIAN: Michele Torri

EQUIPMENT Static testing machine Instron IM178 Static testing machine Instron IM006 Delta Ohm digital thermo-hygrometer, ID IT72

TEST CONDITIONS
For slippage verification, the clamp halves are fixed to the testing machine by gripping a steel sheet segment with the serrated jaws. The thickness of the sheet is selected to allow contact with the entire serrated jaw surface.
Photo 2 below shows the test configuration used.

For maximum tensile load verification, the clamp halves are fixed to the testing machine by gripping a shaped stepped fixture designed to prevent slippage of the serrated jaws during load application.
Photo 4 on the following pages shows the test configuration used for sample B.



TEST PARAMETERS
Temperature: 24.6 °C
Test speed: 1 mm/min
Control type: Displacement

TEST RESULTS – SLIPPAGE VERIFICATION

Sample Code	Fm (kN)	Fm (Ton-force)	Notes At the indicated load, initial
B	62.4	6.4	slippage of the steel plate clamp

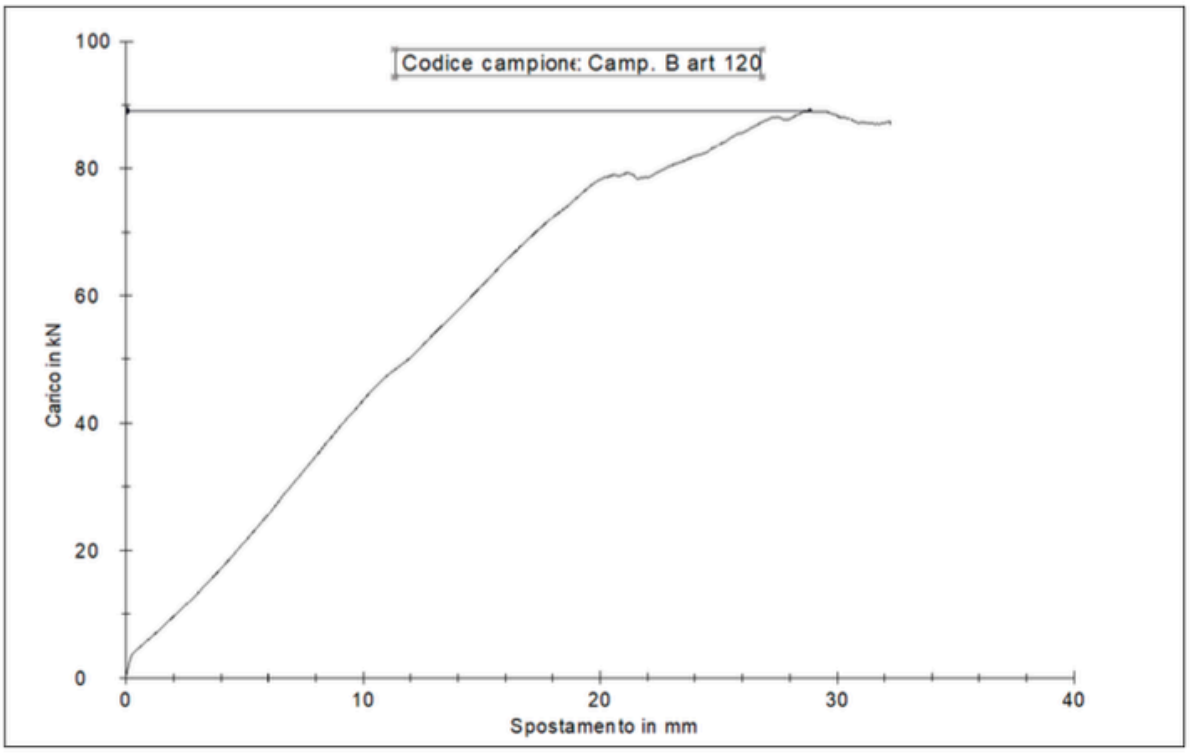
Fm: Maximum load reached at the onset of jaw slippage
Force measurement uncertainty: U (k = 2) = ±2% of the indicated value
Expanded uncertainty based on coverage factor k = 2 (confidence level 95%).

TEST RESULTS – MAXIMUM TENSILE LOAD VERIFICATION

Sample Code	Fm (kN)	**Notes** After reaching the maximum load, a progressive
B	73.6	decrease in load occurred

Fm: Maximum applied load
Force measurement uncertainty: U (k = 2) = ±2% of the indicated value
Expanded uncertainty based on coverage factor k = 2 (confidence level 95%).

TEST GRAPH – MAXIMUM TENSILE LOAD VERIFICATION
Load (kN) vs. Displacement (mm)
Sample Code: Sample B – Article 120



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