

# Tensile performance test report

1. Obtaining 3 test tubes out of stick according to Annex 3 (Marks T) for tensile Testing.

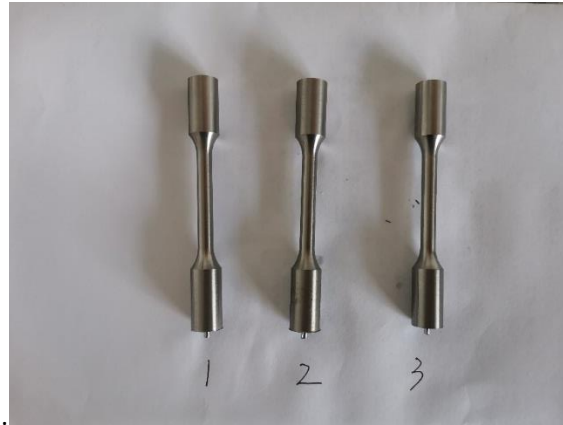


Figure 1. 3 test samples

2. Sample size requirements

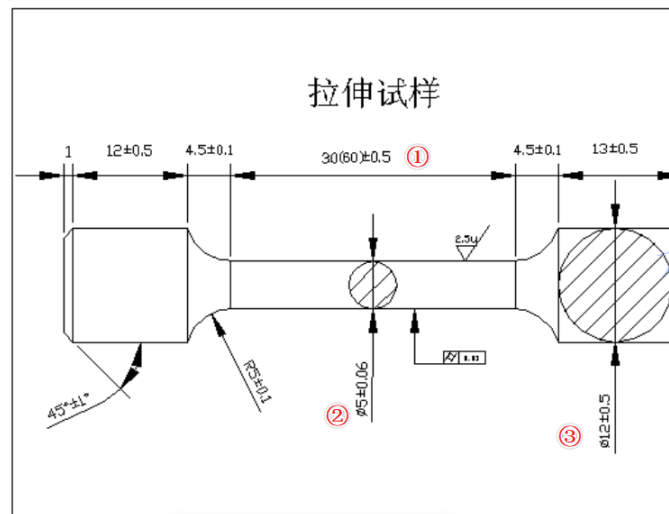


Figure 2 Tensile Sample Drawing

Drawing dimension		1#	2#	3#
1	30±0.5	30.009	4.99	12.04
2	5±0.06	30.009	4.99	12.04
3	12±0.5	30.009	4.99	12.04

3. Reference standard for Tensile test: ISO 6892

4. Tensile test equipment: SNN microcomputer controlled electronic universal testing machine

5. Environmental Temperature: 25.4 Degree Celsius

6. Tensile test steps:.

1) Sample size measurement

➤ Use a micrometer to measure the original diameter of the sample (FIG. 3): 4.99mm

➤ The mark of the original marker distance  $L_0$  length (25mm) (FIG. 4)



**Figure 3 Diameter measurement**



**Figure 4  $L_0$  length Marking**

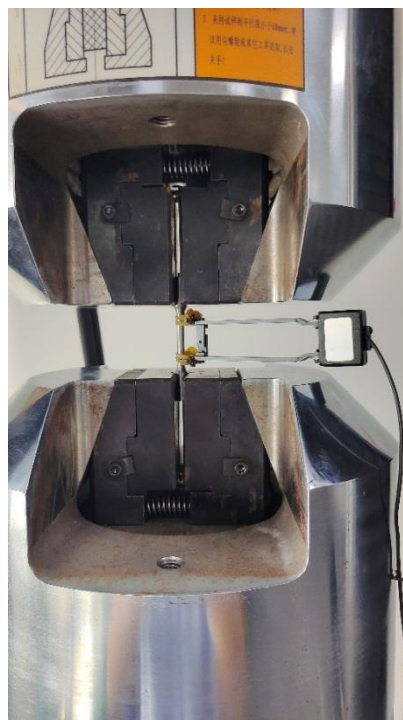
2) Measure parameters

- Stress control 1:7 MPa/s
- Stress control 1:8 MPa/s

Final control mode - Force control: 18.50 KN;

Final control mode - Force control: 280 KN;

3) Select the appropriate fixture, set the limiting device according to the test length and the spacing of the fixture, and bind the extensometer to the sample (see FIG 5).



**Figure 5 Sample placement**

4) Start testing

6. Test Result

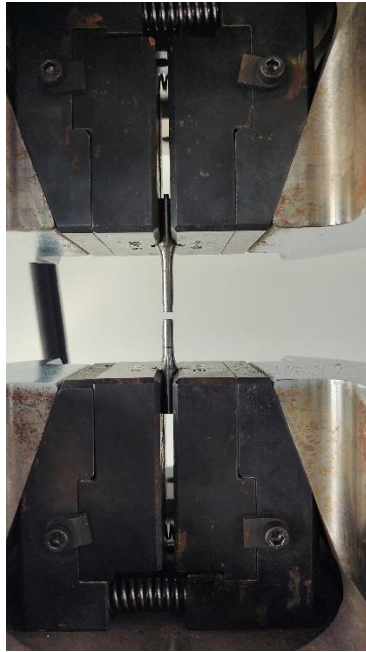


Figure 6 End of test

SN	Elongation (%)	Yield strength 0.2% (MPa)	Tensile Strength (MPa)
1#	15.93	950	1080
2#	16.41	950	1090
3#	16.20	956	1086



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