



Engineering,
GM DAEWOO Auto & Technology
Standards

METHOD OF TRANSVERSE BENDING TEST OF GRAY CAST IRON

EDS-T-7129

ISSUED DATE: 1990. 11. 20

REVISED DATE: 2006. 06. 19

VERSION: 2

1. PURPOSE

This standard aims at measuring mechanical properties of gray cast iron conveniently by measuring transverse bending deflection strength from cylindrical test piece as cast.

2. SCOPE

This standard specifies the transverse bending test method of gray cast iron.

3. TEST PIECE

3.1. In principle, the test piece shall be used as cast. The surface may be machine - finished to meet the dimensional requirement within the tolerance range.

3.2. The test piece shall be cylindrical cast, and its standard dimensions shall be divided as follows.

Table 1

Type of test piece	Diameter as cast D (mm)	Diametric tolerance (mm)	Length between fulcrums L_1 (mm)	Length of test piece L_2 (mm)
a	20	± 1.0	200	300
b	30	± 1.0	300	350
c	30	± 1.5	450	500
d	45	± 2.0	600	650

4. TEST METHOD

4.1. Place the bending tool (supports, pressurizing metal fitting) on the tensile testing machine as shown in Fig. 1.

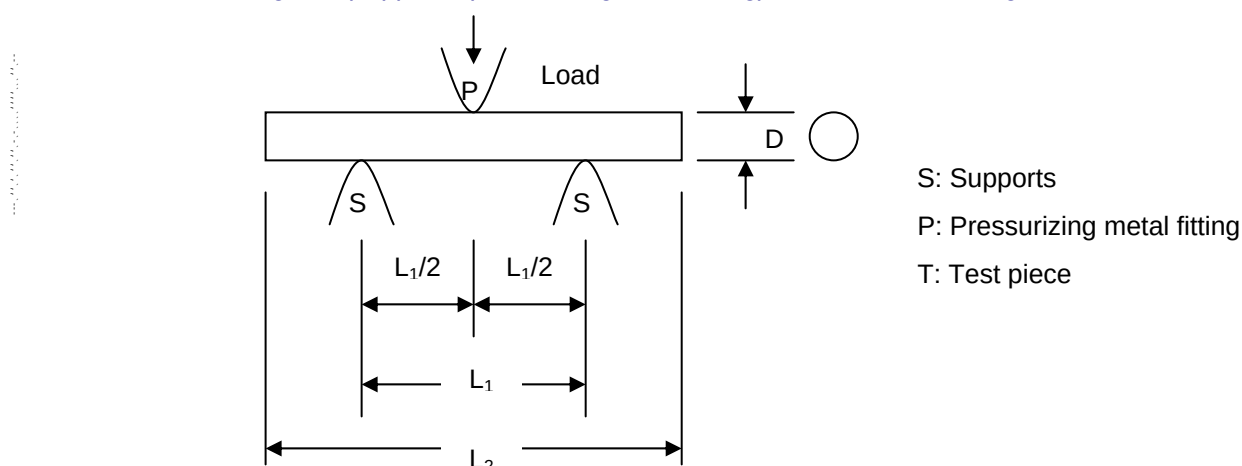


Fig. 1