

The stress strain curve must be plotted and attached to this paper

Results for the cast iron specimen

Failure force in compression: _____ N

Ultimate strength in compression: _____ MPa

Observations

1. The steel specimen deforms elasto-plastically taking the shape of a barrel.
2. On the stress – strain curve, a proportionality limit of _____ MPa was noticed
3. The Young’s modulus, obtained as the slope of the linear part of the stress – strain curve has a value of _____ MPa.
4. Cast iron exhibited a fragile failure, cracks at an angle of 45° with respect to the generatrix of the cylinder being noticed
5. _____