

E355 EN 10305-1 (Euronorm)

Standards

EN 10305-1

Steel tubes for precision applications - Technical delivery conditions - Part 1: Seamless cold drawn tubes

Other designations

Euronorm

1.0580 - EN 10305-1

France

TU 526 - AFNOR NF A49-310

Chemical composition

C < 0.22

Si < 0.55

Mn < 1.6

P < 0.025

S < 0.025

Fe Rest

+Nb +Ti +V

Properties

By EN 10305-1

+C

Tensile Strength: > 640 MPa

Elongation: > 4 %

Ratio Yield strength/Tensile strength: > 0.8

+LC

Tensile Strength: > 580 MPa

Elongation: > 7 %

Ratio Yield strength/Tensile strength: > 0.7

+SR

Yield Strength: > 450 MPa

Tensile Strength: > 580 MPa

Elongation: > 10 %

Outside diameter: > 160 mm ;

Yield Strength: > 420 MPa

Tensile Strength: > 580 MPa

Elongation: > 10 %

+A

E355 EN 10305-1 (Euronorm)

Tensile Strength: > 450 MPa

Elongation: > 22 %

Ratio Yield strength/Tensile strength: > 0.5

+N

Yield Strength: > 355 MPa

Tensile Strength: 490 - 630 MPa

Elongation: > 22 %

Outside diameter: < 30 mm ; Wall thickness: < 3 mm ;

Yield Strength: > 345 MPa

Tensile Strength: 490 - 630 MPa

Elongation: > 22 %

Calculated properties

Density: 7.83 g/cm³