Mechanical properties and hardness

astm-a179

Property	ASTM A179 limit	Requirement
Minimum tensile strength (TS)	325 MPa	Minimum
Minimum yield strength (YS)	180 MPa	Minimum
Minimum elongation	35%	Standard specimen
Rockwell hardness	72 HRB	Maximum

Page note: ASTM A179 tubing is commonly ordered by outside diameter, minimum wall thickness and length, rather than by NPS and schedule. OD, minimum wall, straightness, ovality and length tolerances must suit the tubesheet, baffles and fabrication method.

ASTM source / basis: ASTM International — ASTM A179/A179M-24; ASTM A450/A450M-25a.