



TENSILE STRENGTH & HARDNESS INDICATIONS

Steel Grade and Temper	Tensile Strength N/mm ²	Hardness Scales		
		Vickers HV	Brinell HB	Rockwell HRB or HRC
AISI 316L tubing Full hard Half-hard Annealed	900 - 1300 700 - 900 450 - 700	280 - 400 220 - 280 140 - 220	266 - 380 208 - 266 133 - 208	HRC 27 - 41 HRB 94 - 104 HRB 75 - 94
AISI 304 tubing Full hard Half-hard Annealed	1000 - 1400 800 - 1000 450 - 700	310 - 435 250 - 310 140 - 220	295 - 413 238 - 295 133 - 208	HRC 31 - 44 HRC 22 - 31 HRB 75 - 95
AISI 304 wire Full hard	1300 - 2200	400 - 650	380 - 618	HRC 41 - 58
AISI 303 wire AISI 316LS wire Half-hard	600 - 950	185 - 295	176 - 280	HRB 89 - 105
AISI 302 wire Full hard	1600 - 2200	490 - 650	466 - 618	HRC 48 - 58

Unimed's stock of tubing and solid wire is generally carried in **full hard** condition, with the exception of AISI 303 and AISI 316LS which are half-hard. However, random length and cut tubings and wire can also be provided in **bright annealed** condition or produced in **half-hard** temper, on request.