

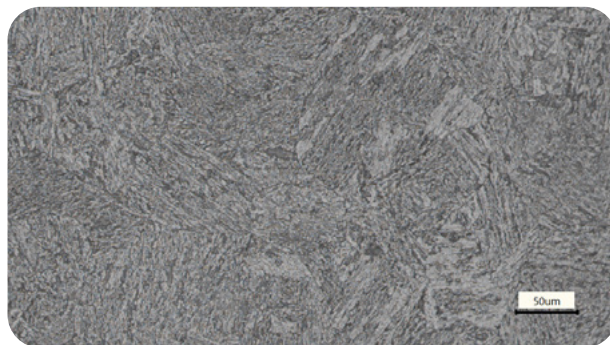
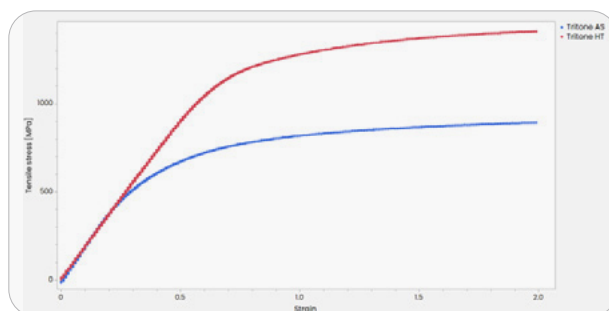
MATERIAL DATASHEET

4340 LOW ALLOY STEEL

Large Container: 50-MTLP-4340 | Small Container: 50-MTLP-1340

COMPOSITION (ASTM A322)

Composition	Amount
Carbon	0.38-0.43%
Manganese	0.60-0.80%
Phosphorous	0.035%max
Sulfur	0.040%max
Silicon	0.15-0.35%
Nickel	1.65-2.00%
Chromium	0.70-0.90%
Molybdenum	0.20-0.30%
Iron	Bal.



MECHANICAL PROPERTIES

Properties	Test Standard	Tritone		ISO 22068	
		As sintered	Heat treated	As sintered	Heat treated
Ultimate Tensile Strength	ASTM E8	900 MPa	1420 Mpa	700 MPa	900-1600 MPa
0.2% Yield Strength	ASTM E8	700 MPa	1240 Mpa	500 MPa	750-1300 MPa
Elongation at Break	ASTM E8	>4%	>3%	4%	2-3%
Hardness	ASTM E18	26 HRC	40 HRC	24 HRC	25-48 HRC
Relative density	ASTM B962	>96.2%		94.3%	

The mechanical properties are typical values obtained by independent laboratory from parts processed in an industrial sintering furnace.