

Seamless Carbon and Alloy Steel Mechanical Tubing – ASTM A519

Application: motor-car construction, pneumatic and hydraulic operating mechanisms

Mechanical Properties			
Grade	Yield Strength (Mpa)	Tensile Strength (Mpa)	Elongation (%)
1010 HR	≥ 193	≥ 331	30
1020 HR	≥ 221	≥ 345	25
1025 HR	≥ 241	≥ 379	25
1035 HR	≥ 276	≥ 448	20
1045 HR	≥ 310	≥ 517	15

Remarks: HR - Hot Rolled

Chemical Compositions (%)										
Grade	C	Si	Mn	P	S	Cr	Mo	Cu	Ni	V
1010	0.08-0.13	/	0.30-0.60	≤0.040	≤0.050	/	/	/	/	/
1020	0.18-0.23	/	0.30-0.60	≤0.040	≤0.050	/	/	/	/	/
1025	0.22-0.28	/	0.30-0.60	≤0.040	≤0.050	/	/	/	/	/
1035	0.32-0.38	/	0.60-0.90	≤0.040	≤0.050	/	/	/	/	/
1045	0.43-0.50	/	0.60-0.90	≤0.040	≤0.050	/	/	/	/	/

Size:

- Outer Dimensions.: 19.05mm ~ 114.3mm
- Wall Thickness: 2 mm ~ 14 mm
- Length: max 16 meters

Protection:

- Black and bear
 - External varnished with black or clear lacquer
 - Oiled
- Upon request, pipes ends are protected by plastic caps

Marking:

Pipes are supplied with marking according to standard and customer request. Marking is paint and/or die stenciled on the ends of pipes. The same data, as well as additional information per customer's request, is indicated on the bundle's tags.

Delivery:

Pipes are supplied in hexahedral bundles or round bundles tied with steel strip. Weight of bundle - up to 5000 kg upon request of customer. Each bundle is furnished with three tags.