

GOST 21729-76 STRUCTURAL COLD- AND WARM-FINISHED TUBES OF CARBON AND ALLOY STEEL

Tube size, tolerances and curvature shall conform to requirements given in GOST 8734-74, GOST 8734-75 and GOST 9567-75.

Depending on surface quality tubes shall be manufactured in the following grades:

- grade A: thin wall and extra-thin wall tubes;
- grade B: heavy wall and super heavy wall tubes.

Technical requirements.

Tubes to this standard are produced of steel grades 20A; 45; 10G2; 38HA; 30HGSA; 30HGSN2A; 30HGSNMA and 38HMJuA melted by conventional or vacuum arc methods.

Tubes shall be delivered in heat-treated condition; tubes grade A shall be heat-treated in a protective atmosphere.

Tube ends shall be cut square and deburred.

Mechanical properties of tubes in delivery condition are given in Table 1.

Tubes shall withstand hydraulic pressure to GOST 3845-75.

On agreement a non-destructive test shall be performed.

Table 1 Mechanical Properties of tubes to GOST 21729-76.

Steel grade	Tensile strength, MPa	Elongation, percent
	not lower	
45	589	14
20A	392	22
10Г2	422	22
30ХГСА	491	18
12Х2НВ4А (ЭИ712)	491	16
30ХГЧ2А (30ХГЧА)	589	15
30ХГЧМА	589	15
38ХА	589	14
38ХАМ0А	392	20
12ХН3А	491	16