## GOST 8467-83 STEEL TUBES WITH PIN CONNECTIONS FOR GEOLOGICAL SURVEYING

Tube sizes are shown in Fig. 1 and Table 1.

Table 1 Sizes, mm

				]	[			
Tube				Upset end				
+	[]	[]	[		+T	TT-		T+
Outside	Wall		Theoret:	kg				
	thickness,	_						
D			_	end	d	11   12		G
¦33.5 ±0.3	3¦4.75 +0.57				; без			
1	-0.48	3000			non-	upset		
42 ±0.45	5.00 +0.6			0.65	20-27	100   20	33.5	+0.5  50
		3000 4500						
50 ±0.45	5.50 +0.66			0.96	26-35	110   25	42.0 -	+0.5  55
		3000 4500						
L	+				++	+-		

Thread profile end size (left-hand thread included) are shown in Fig. 2 and Table 2 and 3.

- Fig. 1. Drill pipe with nipple connection.
- Fig. 2. Profile of thread for drill pipe with nipple connections.

Table 2

	Т			
initedu parameters	33.5; 42 мм	50 MM		
Mar (Thread pitch), S, mm   Угол наклона боковых сторон   профиля /2, град	6.35	6.35		
Angle /2, degrees Paбoчaя высота витка, t, мм	5	5		
Thread turn height, t, mm   Ширина витка у вершины:   Turn width at the apex:   наружной резьбы, m, мм	1.5	1.75		
outside thread, m, mm внутренней резьбы, m1, мм	3.029	3.007		
inside thread, m1, mm Наименьший зазор по ширине	3.044	3.022		
Butka (Minimum gap), a, mm	0.015	0.015		

## Table 3 Sizes, mm

Диаметр Наружн. Трубы	Г	2.0	н резьба Г внутр. диаметр d1		
Outside diameter of tube	Specified +	outside	thread  inside diameter d1	Inside Inside outside diameter	thread   inside   diameter
33.5 42 50	28 33 41.5	28 33 41.5	25 30 38	28.025 33.032 41.532	25   30   38

Technical requirements.

Tubes shall be manufactured of steel grades 36G2S, 40H and 30HGS according to GOST 4543-71 and steel grade D with sulphur and phsphorus contents not over 0.015 percent each.

Tubes of steel grade D shall be normalized; tubes of steel grade 36G2S shall be normalized or quenched and tempered; tubes of steel grades 40H or 30HGS shall be quenched and tempered. Heat treatment of tubes shall be carried out after upsetting.

Mechanical properties of normalized tubes are given in table 4.

Table 4

	-T			
	¦ Марка стали (Steel grade)¦			
Механические свойства	+	T+		
Mechanical properties	36F2C	Д		
+	-+	++		
Предел прочности при растяжении,	i	i i		
krc/mm¤, не менее	i	i i		
Tensile strength, kg/mmQ,not lower	† 70	¦ 65		
Предел текучести, кгс/мм¤, не менее	1			
Yield limit, kg/mm not lower	; 50	38		
Относительное удлинение, %, не менее	1			
Elongation, %, not lower	12	16		
T	-+	+		

Mechanical properties of heat treated tubes are subject to agreement. Tube surface shall be smooth, without cracks, laps and deep scratches. Minor surface defects are permissible if they leave the dimensions within the specified limits.

The runout between the upset and non-upset parts shall be smooth.

Wall thickness variation and ovality shall leave tube dimensions within the specified tolerances. Tube curvature shall be under 1 mm per meter length.

Thread surface rougness shall not exceed 3.2 micrometers.

The remaining wall thickness in the thread recess is given below:

for OD 33.5 mm: not lower than 2.2 mm; for OD 42 mm: not lower than 3.9 mm; for OD 50 mm: not lower than 3.6 mm.

One tensile test specimen is taken from a tube lot according to GOST 1497-73.