

ΟΔΟΑΥ ΑΑΝΘΙ ΑΙ ΥΑ ΑΕΒ ΕΤ ΟΕΤ Α Ε ΟΔΟΑΙ Ι ΔΤ ΑΤ ΑΤ Α Ι Τ ΟΟ 14-3-190-82

Seamless pipes for boilers and pipelines made to TU 14-3-190-82

Οδοαυ ι δει αι υρονυ αεγ ααοαεε ετ οετ α ε οδοαι ι δετ αι αι α, οααι οαυυεο α ονετ αεγο ι ααυιτ εεο οαι ι αδοαοδ ε αααεαι εε.
Pipes are used for boiler and pipeline components used at moderate temperatures and pressures.

Οει ε-αηεεε ηι ηοαα

Chemical composition

I adēa nōaēe Steel grade	Οει ε-αηεεε ηι ηοαα, %, ι α ατ εαα Chemical composition, pct, not more					
	C	P	S	Cr	Si	Mn
10	0,07-0,14	0,035	0,040	0,15	0,17-0,37	0,35-0,65
20	0,17-0,24	0,035	0,040	0,25	0,17-0,37	0,35-0,65

Νι δοαι αι ο ετ οαευι υο οδοα ιτ ΟΟ 14-3-190-82

Assortment of boiler pipes according to TU 14-3-190-82

Νι δοαι αι ο οτ ετ αι ι ααοι δει εδτ αι αι ι υο ετ οαευι υο οδοα ιτ ΟΟ 14-3-190-82 ηι τ οααοηοαοαο οααεεοα ηι δοαι αι οα αεγ ΑΤ ΝΟ 8733-74/8734-75 οασι αδι 12-76 ο 2-6 ι ι

Assortment of cold-worked boiler pipes made to TU 14-3-190-82 is in accordance with product range table for GOST 8733-74/8734-75 with sizes 12-76 x 2-6 mm

Νι δοαι αι ο αι ογ-αααοι δει εδτ αι αι ι υο ετ οαευι υο οδοα ιτ ΟΟ 14-3-190-82 ηι τ οααοηοαοαο οααεεοα ηι δοαι αι οα αεγ ΑΤ ΝΟ 8731-74/8732-78

Assortment of hot-worked boiler pipes made to TU 14-3-190-82 is in accordance with product range table for GOST 8731-74/8732-78

Ι αοαι ε-αηεεα ηαι εηοαα

Mechanical properties

I adēa nōaēe Steel grade	I oaaēe ι δετ ι ηνε ι δε οαηογααι εε, ι ι α Tensile strength, MPa	I oaaēe οαεο-αηοε, ι ι α Yield strength, MPa	Ι ο ι ηνεοαευι τ α οαεε ι αι εα, % Elongation, pct	Ι ο ι ηνεοαευι τ α ηοααι εα, % Contraction, pct	Οαοδ ι αγ αγρετ ηου, Αε/ηι ² Impact strength, J/cm ²
Αεγ οτ ετ αι ι ααοι δει εδτ αι αι ι υο οδοα / For cold-worked tubes					
10	343-500	206	24	55	49
20	412-568	245	21	45	49
Αεγ αι ογ-αααοι δει εδτ αι αι ι υο οδοα / For hot-worked tubes					
10	343-500	206	24	55	49

Αι ι οηεααι υα ι δεετ ι αι εγ ιτ οασι αδαι αεγ οτ ετ αι ι ααοι δει εδτ αι αι ι υο οδοα

Permissible deviations in dimensions for cold-worked pipes

I adōaēf ue aēai αοδ, ι ι / External diameter, mm			Οτ ευερα ηοαι εε, ι ι / Wall thickness, mm	
ι ο 10 αι 30 from 10 tī 30	ι ο 30 αι 50 from 30 tī 50	ηαυοα 50 over 50	ι ο 1 αι 5 from 1 tī 5	ι ο 5 ε αυοα from 5 and over
±0,3 ι ι / mm	±0,4 ι ι / mm	±0,8 ι ι / mm	±10,0 %	±8,0 %

Αι ι οηεααι υα ι δεετ ι αι εγ ιτ οασι αδαι αεγ αι ογ-αααοι δει εδτ αι αι ι υο οδοα

Permissible deviations in dimensions for hot-worked pipes

Οτ ευερα ηοαι εε, ι ι Wall thickness, mm	Αυητ εαγ οτ ι η ηου / High accuracy			Ι αυ ι αγ οτ ι η ηου / Normal accuracy	
	αι 108 ι ι up tī 108 mm	ι ο 108 αι 140 ι ι from 108 up tī 140 mm	ηαυοα 140 ι ι over 140 mm	αι 108 ι ι up tī 108 mm	ι ο 108 αι 159 ι ι from 108 up tī 159 mm
	±0,8 %	±0,8 %	±0,9 %	±1,0 %	±1,0 %
αι 7 up tī 7	±12,5 %	±12,5 %		+12,5 % -15,0 %	+12,5 % -15,0 %
ι ο 7 αι 15 from 7 up tī 15	+12,5 % -10,0 %	±10,0 %		+12,5 % -15,0 %	±12,5 %
ηαυοα 15 over 15	±10,0 %	+12,5 % -15,0 %		±12,5 %	+12,5 % -15,0 %