

**ASTM A200-89 SEAMLESS intermediate ALLOY STEEL TUBES FOR REFINERY SERVICE**

This standard is issued under the fixed designation A 200; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (2) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers several grades of minimum-wall-thickness, chromium-molybdenum and chromium-molybdenum-silicon, seamless, hot-finished and cold-finished, intermediate alloy-steel still tubes, for use in carrying fluids at elevated temperatures and pressures in various types of heaters, in which the tubes may be subjected to a furnace temperature higher than that of the contained fluid.

1.2 This specification covers tubes 2 to 9 in., (50.8 to 228.6 mm) inclusive, in outside diameter and over 0.220 in. (5.59 mm) in minimum wall thickness.

1.3 Where butt welding is used to obtain length longer than single length normally produced in the mill, Specification A 422 shall cover the requirements for butt welds.

1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

Material Comparison Tables (ASTM, KS, JIS, DIN, BS, NBN, NF, UNI)

ASTM Standard	UNS NO.	KOREA/JAPANESE			GERMAN				BRITISH			BELGIAN			FRENCH			ITALIAN		
		KS/JIS Symbol	KS/JIS Number	Remarks	DIN Type	DIN Number	Material Number	Remarks	B.S Number	B.S Grade	Remarks	NBN Type	NBN Grade	Remarks	AFNOR Type	NF Number	Remarks	UNI Type	UNI No	Remarks
A 200 Seamless Intermediate Alloy Steel Tubes for Refinery Service																				
T 5	K41545	STHA 24 / STBA 25	D3572 / G3462	(32)	12CrMo 19 5		1.7362 (3a)	3604	625	(30)(32)	X12CrMo	837	(32)	TU Z 12 CD	A49-213	(32)				Dalmine 234(3b)
T 11	K11597	STHA 22 / STBA 23	D3572 / G3462	(32)	13CrMo 44	17175	1.7335 (8)	3604	621	(30)(32)				5.05	A49-213	(32)				Dalmine 227(3b)
T 22	K2159	STHA 23 / STBA 24	F3572 / G3462	(32)	10CrMo 9 10	17175	1.7380	3606	622	(30)(32)	10CrMo 9 10	837	(32)	TU 10 CD 5.05	A49-213	(32)	12CrMo 9 10	5462	(3b)	
														TU 12 CD 9.10						



