

ASTM B111-89a/ASME SB111-89a COPPER AND COPPER ALLOY SEAMLESS CONDENSER TUBES AND FERRULE**1. Scope**

1.1 This specification covers seamless tube and ferrule stock of copper and various copper alloys up 3 1/8 in, inclusive, in diameter, for use in surface condensers, evaporators, and heat exchangers. Tubes for this application are normally made from the following coppers or copper alloys.

Material Comparison Tables (ASTM, KS, JIS, DIN, BS)

ASTM Standard	UNS NO.	KOREA/JAPANESE			GERMAN				BRITISH			ISO		
		KS/JIS Symbol	KS/JIS Number	Remarks	DIN Type	DIN Number	Material Number	Remarks	B.S Number	B.S Grade	Remarks	ISO Type	ISO Number	Remarks
B 111 Copper and Copper-Alloy Seamless Condenser Tube and Ferrule Stock														
C44300	C44300	C4430T/C4430T	D5301/H3300		CuZn28Sn	1785			2871	CZ111		CuZn28Sn1	R1337	
C68700	C68700	C6870T/C6870T	D5301/H3300		CuZn20Al	1785			2871	CZ110		CuZn20Al2	426-I	
C70600	C70600	C7060T/C7060T	D5301/H3300		CuNi10Fe1Mn	17664			2871	CN102		CuNi10Fe1Mn	429	
C71000	C71000	C7100T/C7100T	D5301/H3300											
C71500	C71500	C7150T/C7150T	D5301/H3300		CuNi30Mn1Fe	17664			2871	CN107		CuNi30Mn1Fe		
C71640	C71640	C7164T/C7164T	D5301/H3300		CuNi30Fe2Mn2	17664			2871	CN108		CuNi30FeMn2		