

ASTM B210/ASME SB210 SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY DRAWN SEAMLESS TUBES

1.Scope

1.1 This specification covers aluminum and aluminum-alloy drawn seamless tubes in straight lengths and coils for general purpose and pressure applications in alloys (Note 2), temperas, and thickness shown in Table 2. Coiled tubes are generally available only as round tubes with a wall thickness not exceeding 0.083 in. and only in nonheat-treatable alloys.

1.2 Alloy and temper designation are in accordance with ANSI H35.1. The equivalent Unified Numbering System alloy designations are those of Table 1 preceded 1100 in accordance with Practice E 527.

NOTE 1 —See Specification SB-234 for aluminum-alloy drawn seamless tubes for condensers and heat exchange: and Specification SB0241/SB-241M for aluminum-alloy seamless pipe and seamless extruded tube.

NOTE 2 —Through this specification, use of the tem alloy in the general sense includes aluminum as well as aluminum alloy.

1.3 A complete metric companion to Specification B 210 has been developed — Specification B 210M: Therefore, no metrics equivalents are presented in this specification.

1.4 For acceptance criteria for inclusion of new aluminum alloys in this specification, see Annex A2.

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

ASTM Standard	KOREA/JAPANES			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 210 Aluminum-Alloy Drawn Seamless Tubes													
	A1070PE/ A1070TD	D6761/H4080											
	A1050PE /A1050TD	D6761/H4080						1471		1050A			
100	A1100PD /A1100TD	D6761/H4080									A199.0Cu	209	
	A1200PD /A1200TD	D6761/H4080	A199	1747				1471		1200	A199.0		
	A2017PD /A2017TD	D6761/H4080	AlCuMg1	1747							Al-Cu4MgSi		

20024	A2024PD /A2024TD	D6761/H4080	AlCuMg2	1747									
3003	A3003PD /A3003TD	D6761/H4080									Al-Mg1Cu		
	A3203PD /A3203TD	D6761/H4080											
5052	A5052PD /A5052TD	D6761/H4080									Al-Mg2.5		
5154	A5154PD /A5154TD	D6761/H4080											
	A5056PD /A5056TD	D6761/H4080	AlMg5	1747			1471		5154A				
5083	A5083PD /A5083TD	D6761/H4080	AlMg4.5Mn	1747							Al-Mg4.5Cu		
6061	A6061PD /A9061TD	D6761/H4080					1471		5083				
6063	A6063PD /A6063TD	D6761/H4080					1471		6061		Al-MgSi		
7075	A7075PD /A7075TD	D6761/H4080	AlZnMg1.5	1747			1471		6063		Al-Zn5.5MgCu		