

# Chinalco Extruded/drawn Products



C70600 PIPE/TUBE

Material Designation		Chemical Composition		Typical Applications
GB	BFe10-1-1	Ni+Co	9.0-11.0%	<ul style="list-style-type: none"> <li>· Corrosion resistant parts</li> <li>· Condensers</li> <li>· Transformer coils</li> <li>· Heat exchangers</li> </ul>
UNS (ASTM)	C70600	Fe	1.0-1.8%	
JIS	C7060	Mn	0.2-1.0%	
		Pb	≤0.05%	
		Zn	≤1.0%	

PROPERTIES					
Alloy	Product	Temper	Section size ( mm )		Length (mm),max.
			OD.	WT.	
BFe10-1-1 C7060	Drawn pipes	M, Y2, Y	10 ~ 160	1 ~ 8	OD. ≤50 L1000 ~ 7000 OD. > 50 L500 ~ 6000
BFe10-1.6-1	Copper Nickel tubes and Pipes for Marine shipbuilding	M	10 ~ 159	1.0 ~ 3.5	2000 ~ 6000
BFe10-1.6-1			10 ~ 194	1.0 ~ 3.5	6000
BFe10-1-1、 BFe10-1.6-1、 C7060、7060X			> 194 ~ 325	3.0 ~ 5.5	Negotiated
			10 ~ 368	1.0 ~ 5.5	4000 ~ 6000
			22-160	3-10	
BFe10-1-1 C7060	Condenser and Heat Transformer pipes	M	10 ~ 160	1 ~ 4.5	500 ~ 6000
		Y, Y2	10 ~ 76	1 ~ 4.5	< 15000
BFe10-1-1	Extruded pipes	R	70 ~ 250	10 ~ 25	500 ~ 3000
C7060、C7060X					C7060、C7060X Negotiated

<b>Mechanical Properties (Drawn)</b>				
Temper	Tensile Strength Rm/ (N/mm <sup>2</sup> )	Elongation A/ % min	HV	HB
M	≥290	30	75~110	70~105
Y2	≥310	12	105	100
Y	≥480	8	150	145

<b>Mechanical Properties (Extruded)</b>				
Temper	Tensile Strength Rm/ (N/mm <sup>2</sup> )	Elongation A/ % min	HV	HB
R	≥280	30	≤80	70~105

<b>Outside Diameter Tolerance (Extruded)</b>		
OD.	Tolerance (mm) (±) , ≤	
	General-grade	High-grade
3~15	0.06	0.05
>15 ~25	0.08	0.06
>25 ~50	0.12	0.08
>50 ~75	0.15	0.1
>75 ~100	0.2	0.13
>100 ~125	0.28	0.15
>125 ~150	0.35	0.18
>150 ~200	0.5	—
>200 ~250	0.65	—
>250 ~360	0.4	—

Wall thickness tolerance (±) %										
OD.	Wall thickness									
	0.20 ~0.40		>0.40~0.60		>0.60 ~0.90		>0.90~1.5		>1.5 ~2.0	
	General-grade	High-grade	General-grade	High-grade	General-grade	High-grade	General-grade	High-grade	General-grade	High-grade
3~15	12	10	12	10	12	9	12	7	10	5
>15 ~25	—	—	12	10	12	9	12	7	10	6
>25 ~50	—	—	12	10	12	10	12	8	10	6
>50~100	—	—	—	—	12	10	12	9	10	8
>100 ~175	—	—	—	—	—	—	—	—	11	10
>175 ~250	—	—	—	—	—	—	—	—	—	—
>250 ~360	Negotiated									

Wall thickness tolerance (±) %												
OD.	Wall thickness											
	>2.0 ~3.0		>3.0 ~4.0		>4.0~5.5		>5.5~7.0		>7.0 ~10.0		>10.0	
	General-grade	High-grade	General-grade	High-grade	General-grade	High-grade	General-grade	High-grade	General-grade	High-grade	General-grade	High-grade
3~15	10	5	—	—	—	—	—	—	—	—	—	—
>15 ~25	10	5	10	5	10	5	—	—	—	—	—	—
>25 ~50	10	6	10	5	10	5	10	5	—	—	—	—
>50 ~100	10	8	10	6	10	5	10	5	10	5	10	5
>100 ~175	11	9	10	7	10	7	10	6	10	6	10	5
>175 ~250	12	10	11	9	10	8	10	7	10	6	10	6
>250 ~360	Negotiated											