



金田集团
JINTIAN GROUP

NINGBO JINTIAN COPPER TUBE CO., LTD

CERTIFICATE OF INSPECTION

Customer: INVERPRIMOS SAS

Date : 24th/Sep/2021

Order No. : 21JTTQ018

Inspection No. : 01

Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	4.76	0.76	15	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	247	51.8	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

OD Expansion : PASSED

Eddy-Current Defect : PASSED

ROSH : PASSED

Finally determinant: PASSED

Q. C.: Chun hua Duan

If you have some question about the quality, please put forward within 90 days.



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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	6.35	0.76	15	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	246	51.1	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	7.94	0.81	15	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	246	52.5	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Customer: **ALMACENES**
«REFRIGERACION»
EN REFRIGERACION... SOMOS LA SOLUCION

Date : 24th/Sep/2021 Order No. : 21JTTQ018

Inspection No. : 01

Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	9.52	0.81	15	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	242	51.2	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

OD Expansion : PASSED

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	12.70	0.81	15	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	250	55.4	0.024	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	15.88	0.89	15	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	241	53.5	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	19.05	0.89	15	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	240	52.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	22.23	1.14	15	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	235	52.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	1.83	0.56	30	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	234	52.5	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.21	0.65	30	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	236	52.8	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.51	0.64	30	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	238	52.4	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.69	0.66	30	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	234	52.4	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.84	0.67	30	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	238	52.9	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	3.18	0.77	30	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	245	55.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	1.83	0.56	3	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	235	54.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.06	0.64	3	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	248	52.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.21	0.65	3	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	245	55.5	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.36	0.65	3	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	247	55.3	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

OD Expansion : PASSED

Eddy-Current Defect : PASSED

ROSH : PASSED

Finally determinant: PASSED

Q. C. : Chun hua Duan

If you have some question about the quality, please put forward within 90 days.



金田集团
JINTIAN GROUP

NINGBO JINTIAN COPPER TUBE CO., LTD

CERTIFICATE OF INSPECTION

Customer: INVERPRIMOS SAS

Date : 24th/Sep/2021

Order No. : 21JTTQ018

Inspection No. : 01

Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.51	0.64	3	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	250	53.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

OD Expansion : PASSED

Eddy-Current Defect : PASSED

ROSH : PASSED

Finally determinant: PASSED

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.69	0.66	3	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	244	53.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

OD Expansion : PASSED

Eddy-Current Defect : PASSED

ROSH : PASSED

Finally determinant: PASSED

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	2.84	0.67	3	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	243	53.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

OD Expansion : PASSED

Eddy-Current Defect : PASSED

ROSH : PASSED

Finally determinant: PASSED

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Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	3.18	0.77	30	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	245	55.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

OD Expansion : PASSED

Eddy-Current Defect : PASSED

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Finally determinant: PASSED

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Inspection No. : 01

Copper Alloy	Temper	O Diameter (mm)	W. Thickness (mm)	Length (m)	Weight (kg)	Standard
C12200	O60	3.18	0.70	30	/	AS PER ASTM B280

PHYSICAL PROPERTY

Testing Item	Tensile Strength N/mm ²	Elongation %	Grain Size mm	Interior Surface Residue mg/m ²		
Normal Data	205 MIN	40 MIN	0.020~0.060	25 MAX		
Testing Data	245	54.6	0.025	8.7		

CHEMICAL COMPOSITION

Item	Cu	P	Fe	Bi	Zn	S	Sn
Normal Data (%)	99.90 MIN	0.015—0.040	0.005 MAX	0.001 MAX	0.005 MAX	0.005 MAX	0.005 MAX
Testing Data (%)	99.954	0.0212	0.0015	0.00010	0.0010	0.0012	0.00040
Item	Ni	Pb	Sb	As			
Normal Data (%)	0.005 MAX	0.005 MAX	0.002 MAX	0.002 MAX			
Testing Data (%)	0.00010	0.0015	0.00012	0.00010			

Appearance : PASSED

OD Expansion : PASSED

Eddy-Current Defect : PASSED

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