



Great Ingot = Great Castings

Main Office/Plant
900 E 14th Street
Chicago, Hts, IL 60411
PH 708.757.4200
FX 708.757.3933
www.trialco.net

Mr. Jay Armstrong / President / armstrong@trialco.net

Mr. Richard A. Milnes / Director of Sales / milnes@trialco.net

Direct - 708.898.9903

Direct - 330.495.7770 - fax 330.491.0308

xxx.0 Casting Spec -- xxx.1 Secondary Ingot Spec -- xxx.2 Primary Ingot Spec

100.1 Alloy

<u>100.1</u>		
Si	0.15	
Fe	0.6 - 0.8	
Cu	0.10	
Mn	20	
Mg		
Cr	20	
Ni		
Zn	0.05	
Ti	20	
Sn		
Others EA	0.03	
Others Tot	0.10	
Al	99.00 Min	

Footnote *20 / Mn + Cr + Ti + V = 0.025 max.

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* Rated minimum conductivities for rotor ingot (electrical motor armatures) and other high conductivity applications	
<u>Ingot</u>	<u>% IACS</u>
100.1	54
130.1	55
150.1	57
170.1	59
The rating of ingot metal for minimum conductivity characteristic is based on established relations between electrical and metal composition	

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130.1 Alloy

<u>130.1</u>		
Si	19	
Fe	19	
Cu	0.10	
Mn	20	
Mg		
Cr	20	
Ni		
Zn	0.05	
Ti	20	
Sn		
Others EA	0.03	
Others Tot	0.10	
Al	99.30 Min	

Footnote *19 Fe/Si Ratio = 2.5 min.

Footnote *20 Mn + Cr + Ti + V = 0.025 max

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150.1 Alloy

<u>150.1</u>		
Si	21	
Fe	21	
Cu	0.05	
Mn	20	
Mg		
Cr	20	
Ni		
Zn	0.05	
Ti	20	
Sn		
Others EA	0.03	
Others Tot	0.10	
Al	99.50 Min	

Footnote *20 / Mn + Cr + Ti + V = 0.025 max.

Footnote *21 Fe/Si Ratio = 2.0 min.

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<u>Ingot</u>	<u>% IACS</u>
100.1	54
130.1	55
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160.1 Alloy

<u>160.1</u>		
Si	0.10	²¹
Fe	0.25	²¹
Cu		
Mn	20	
Mg		
Cr	20	
Ni		
Zn	0.05	
Ti	20	
Sn		
Others EA	0.03	
Others Tot	0.10	
Al	99.60	Min

Footnote *20 / Mn + Cr + Ti + V = 0.025 max.

Footnote *21 Fe/Si Ratio = 2.0 min.

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170.1 Alloy

<u>170.1</u>		
Si	22	
Fe	22	
Cu		
Mn	20	
Mg		
Cr	20	
Ni		
Zn	0.05	
Ti	20	
Sn		
Others EA	0.03	
Others Tot	0.10	
Al	99.70 Min	

Footnote *20 / Mn + Cr + Ti + V = 0.025 max.

Footnote *22 Fe/Si Ratio = 1.5 min.

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