



STANDARD PRODUCTS OF NALCO

LIST OF ABBREVIATIONS

ABBREVIATION	EXPANDED FORM	ABBREVIATION	EXPANDED FORM
Al	Aluminium	ID	Inside Diameter
Approx	Approximate	Imp	Impurities
CG	Commercial grade	Max	Maximum
Cr	Chromium	Min	Minimum
Cu	Copper	Mg	Magnesium
DIA	Diameter	Mn	Manganese
EC	Electrical Conductor	Ni	Nickel
Fe	Iron	OI	Other Impurities
IACS	International Annealed Copper Standard	Si	Silicon
Sl.No	Serial Number	UTS	Ultimate Tensile Strength
Ti	Titanium	Zn	Zinc
		V	Vanadium



NATIONAL ALUMINIUM COMPANY LIMITED
SMELTER PLANT , ANGUL ,ORISSA

STANDARD PRODUCTS OF NALCO

DOC/QC/SPEC/01/WIRE ROD

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WIRE RODS

SL. NO	PRODUCT	PRODUCT DESCRIPTION	SPECIFICATIONS	PRODUCT CODE
			Electrical Conductivity % IACS	
01	EC Wire Rod in Coil form (9.5 mm dia)	Aluminium Wire Rods (WE10)	≥ 61.50	WE 10
02	EC Wire Rod in Coil form (9.5 mm dia)	Aluminium Wire Rods (WE20)	61.000 to 61.499	WE 20
03	CG Wire Rod in coil form (9.5 mm dia)	Aluminium Wire Rods (WC10)	< 61.00	WC 10
04	EC Wire Rod in Coil form (11.95 mm dia)	Aluminium Wire Rods (WE12)	≥ 61.50	WE 12
05	EC Wire Rod in Coil form (11.95 mm dia)	Aluminium Wire Rods (WE22)	61.000 to 61.499	WE 22
06	CG Wire Rod in coil form (11.95 mm dia)	Aluminium Wire Rods (WC12)	< 61.00	WC 12



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ALLOY WIRE RODS

Sl/No	Product	Product Description	SPECIFICATIONS											PRODUCT CODE
			%Si	%Fe	%Mg	%Cu	%Mn	%Cr	%Zn	%B	UTS Kg/mm ²	Elongation (on 250 mm gl) %	Conductivity (% IACS)	
01	Alloy Wire rod	Aluminium Alloy Wire Rod (WA10)	0.50 to 0.90	≤0.30	0.60 to 0.90	0.10 max	0.03 max	0.03 max	0.10 max	0.06 max	13 min	7min	54min	WA10
02	Alloy Wire rod	Aluminium Alloy Wire Rod (WA20)	0.50 to 0.90	≤0.30	0.60 to 0.90	0.10 max	0.03 max	0.03 max	0.10 max	0.06 max	16 min	14min	50min	WA20

Remarks: Product WA10 is as fabricated and Product WA20 is solution treated.

FLIPPED WIRE RODS

SL. NO	PRODUCT	PRODUCT DESCRIPTION	SPECIFICATIONS	PRODUCT CODE
			Electrical Conductivity % IACS	
01	EC Flipped Wire Rod in Coil form (9.5 mm dia)	Aluminium Flipped Wire Rods (WF10)	≥ 61.50	WF 10
02	EC Flipped Wire Rod in Coil form (9.5 mm dia)	Aluminium Flipped Wire Rods (WF20)	61.000 to 61.499	WF 20
03	CG Flipped Wire Rod in coil form (9.5 mm dia)	Aluminium Flipped Wire Rods (WF30)	< 61.00	WF 30
04	EC Flipped Wire Rod in Coil form (11.95 mm dia)	Aluminium Flipped Wire Rods (WF12)	≥ 61.50	WF 12
05	EC Flipped Wire Rod in Coil form (11.95 mm dia)	Aluminium Flipped Wire Rods (WF22)	61.000 to 61.499	WF 22
06	CG Flipped Wire Rod in coil form (11.95 mm dia)	Aluminium Flipped Wire Rods (WF32)	< 61.00	WF 32

- Note: 1. Coil weight = 1.2 to 1.4 MT
 2.Dimension : ID = 780 to 785 mm
 OD = 1220 to 1240 mm
 Width = 880 to 910 mm
 3.Packaging Type = Steel Cage