EC GRADE

ALUMINIUM RODS

Environmentally-friendly processes are employed throughout the mill. The liquid aluminium is supplied directly from EGA smelters in KIZAD in Abu Dhabi. By applying industry best practices and advanced production systems, the produced EC rods are 99.7% pure, and the production complies with stringent requirement of ASTM B233-97.

ALUMINIUM EC RODS CHEMICAL PROPERTIES:

Element %	DAC Specification		ASTM B233-97	
	Min	Max	Min	MAx
Aluminum (Al)	99.7		99.5	
Silicon(Si)		0.10		0.10
Iron(Fe)		0.20		0.40
Zinc(Zn)		0.02		0.05
Gallium(Ga)		0.02		0.03
Vanadium(V) + Titanium (Ti)		0.02		0.02
Copper (Cu)		0.05		0.05
Manganese (Mn)		0.01		0.01
Chromium (Cr)		0.01		0.01
Boron (B)		0.05		0.05
Arsenic (As)		0.009		--
Heavy elements (Cd+Hg+Pb)		0.0095		--
Other elements each (OE)		0.03		0.03
Other elements total		0.10		0.10

Applications:

The Aluminium rods are used for:

- Cables
- Overhead conductors
- AAC
- ACSR
- AAAC
- ACSR/AW
- Wires

MECHANICAL PROPERTIES:

Temper	Tensile Limits (MPa.)	Elongation % min (250mm Gauge Length)
1350/1370-O	59-97	25
1350/1370-H12	83-117	20
1350/1370-H14	103 - 138	15
1350/1370-H16	117- 152	6

ELECTRICAL PROPERTIES:

Temper	Resistivity $\Omega mm^2/m$, max	Equivalent Volume of Conductivity %IACS (min)
1350/1370-O	0.027899	61.8
1350/1370-H12	0.028035	61.5
1350/1370-H14	0.028080	61.4
1350/1370-H16	0.028126	61.3