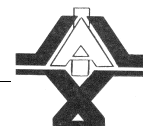


Code : IN-PR-02

INSTRUCTION**IRALCO'S Specification Of Raw Materials****4-7 ANODE SPECIFICATION OF IRALCO**

Specification	Typical	Unit	Value	Method
Real Density	2.05	g/cm ³	Min	ISO 8004
Apparent Density	1.54 - 1.6	g/cm ³	-	ISO 12985
Air permeability	0.5 - 2	npm	-	ISO 15906
Compressive Strength	40 - 55	N/mm ²	-	ISO 12989
Youngs mouldle	3.5 - 5.5	Gpa	-	ISO 12989
Flexural Strength	8 - 14	N/mm ²	-	ISO 12986
Spe. Elec. Resistance	50-60	$\mu\Omega\text{m}$	-	ISO 11713
Cof. Lin . Thermal	3.5-5	$\mu\text{m}/(\text{k.m})$	-	ISO 14420
Thermal Conductivity	3 - 4.5	W/(k.m)	-	ISO 129087
ASh	0.5	%	Max	ISO 8005
Air Reactivity residue	70 – 85	%	-	ISO 12989-1
Dust	2- 10	%	-	
Lost	8-30	%	-	
CO2 Reactivity residue	84-95	%	-	ISO 12988-1
dust	1-10	%	-	
lost	4-10	%	-	
Elements				ASTM D6376
S	0.5-3.5	%	-	
V	30-320	PPM	-	
Fe	100-500	PPM	-	
F	150-600	PPM	-	
Ca	50-200	PPM	-	
AL	150-600	PPM	-	
Ni	40-200	PPM	-	
SI	50-300	PPM	-	

Packing :

Page 9 To 35

Form Code : F-QA-06(0)

Review Date : 30 Jan 2016

Review No: (3)