INSPECTION & TEST PLAN Magnesium Anode										
	شرکت دانش آریا (سهامی خاص) Client :	Doc No :		Date :						
ITEM	TEST	REF.STANDARD	REQUIREMENTS	Test Frequency	type of inspection					
_				,	1	2				
1	Chemical composition	IPS-M-TP-750/3	Aluminum, max. 0.01%		Н	R				
		table 1 para.7.2.1	Manganese 0.9 - 1.2%	one samples per each						
			Copper, max. 0.02%	15 ton						
			Iron, max. 0.03%							
			Nickel, max. 0.001%							
			Other elements, total, max. 0.3%							
			Magnesium* Remainder							
2	Closed Circuit Potentioal (V)	ASTM G97	-1.7(V) or more negative w.r.t CSE		Н	R				
	Open Circuit Potentioal (V)	ASTM G97	-1.65 (V) or more negative w.r.t CSE	one samples per each						
	Electrochemical Capacity (A-h/kg)	ASTM G97	1200 min (A-h/kg)	15 ton						
	consumption Rate (Kg/A-yr)	ASTM G97	7.3 max (kg/A-yr)							
3	-Insert material check	IPS-M-TP-750/3	The magnesium anode core shall be	10% per heat	Н					
		para.7.3	made from commercial hot dipped		Н					
			galvanized steel conforming to ASTM							
			specification A 283, Grade C or							
			equivalent standard. CE<0.45							
4	Cast galvanic anode	IPS-M-TP-750/3	Each anode shall be cast or die-stamped		Н					
	identification	para.8.7	with the following:	outer face of 10% of						
			1-Manufactures symbol	installed anodes						
			2-Heat number							
5	Insert dimensions	IPS-M-TP-750/3	– insert location within		Н					
	and location	para.8.5.1	the anodes shall not	10% of anodes						
			deviate from nominal							
			position shall be in ± 5%							
			of the nominal anode							
			width and length and ±10%							
			of the nominal anode depth							
			-The core length shall be 75% of anode							
			length.							

Inspection groups

Danesh Aria شرکت دانش آریا (سیامی خاص)

INSPECTION & TEST PLAN

Magnesium Anode

1	شرکت دانش آریا (سهامی خاص)		agnesium Anode	Detail				
		Client: Doc No: Date:				type of inspection		
ITEM	TEST	REF.STANDARD	REQUIREMENTS	Test Frequency	type of in	spection 2		
6	Dimensions & Straightness of anode	IPS-M-TP-750/3 para.5.3.1 para.5.3.2 para.5.3.3	Measure the following items: - mean length of anode - mean width - mean thikness - strightness shall not deviate more than 3%	10% of all anodes	Н	R		
7	Surface irregulation	IPS-M-TP-750/3 para.6.1.1 para.6.1.2 para.6.1.3	inspect the following items: - shrinkage depression - nonmetallic inclusions depth - crack - surface slag shrinkage depression shall be accepted. shall not exceed 1/4 inch in depth	10% of anodes	Н	R		
8	Anode weight	IPS-M-TP-750/3 para.8.5.3.4 para.8.5.3.5	-The permissible variation in weight of each finished anode will be plus or minus 5% of the nominal weightThe total contract weight shall be no more than 2% above and not below the nominal contract weight.	10% of all anodes	Н			
9	release note (include shipment)		-anodes shall be bundled.strapped placed on pallets by agreed procedure for minimize damage		Н	R&A		
Ins	pection groups		-					