

QUALITY ASSURANCE PLAN

- 1) NAME OF THE MATERIAL :- ALZEN BAR 13.2(+0.05)mm .
- 2) L.F.No. :-0841500013
- 3) SPECIFICATION :- ALZEN BAR 13.2+0.05mm DIA IN LENGTH. OF 2.5 TO 3 MTRS.
SPECN:ALZEN 305{CHEM. COMPO. :-AL 28-32%, CU-5-6%, SN-0.001%(Max)
,Pb0.003%(Max) ,CAD 0.003%(Max) ,SI-0.10%(Max), IRON-0.10%(Max), Zn
REMAINDER. PHY.PROP. YIELD STRESS 23.6kg/mm SQR Min UTS 31.5-39.5kg/mm
SQR, ELNG.Min5% BRINELL HARDNESS100-150, SPC.GTY4.8Min.
- 4) INSPECTION PLAN :- THE FOLLOWING MATERIAL TESTS WILL BE CONDUCTED ON THE SAMPLE
DRAWN FROM THE LOT AS PER DEF-131 A INSPECTION LEVEL II. RESULT
OF THESE TESTS WILL BE RECORDED AS PER FOLLOWING FORMAT

4.1) MECHANICAL PROPERTIES : AS PER ALZEN 305.

S L	PROPERTIES	SPECIFIED LIMIT/RANGE	RESULT OBTAINED	REMARKS (SATISFACTORY/ UNSATISFACTORY)
1	TENSILE STRENGTH	Min. 31.5-39.5Kg/mm ²		
2	ELONGATION PERCENT	Min.5%		
3	YIELD STRESS	Min.23.6Kg/mm ²		
4	HARDNESS	100-150 BHN		
5	SPECIFIC GRAVITY	MIN 4.8		

4.2)CHEMICAL PROPERTIES : AS PER ALZEN 305.

SL	CHEMICAL PROPERTIES	SPECIFIED LIMIT/RANGE %	RESULT OBTAINED	REMARKS (SATISFACTORY/ UNSATISFACTORY)
1	ZINC	REMAINDER		
2	ALUMINIUM	28-32		
3	SILICON	MAX 0.10		
4	IRON	MAX. 0.10		
5	COPPER	5-6		
6	TIN (Sn)	MAX.0.001		
7	LEAD	MAX 0.003		
8	CADMIUM	MAX. 0.003		

4.3) PHYSICAL PARAMETER CHECKING :-

SL	PHYSICAL PARAMETER	SPECIFICATION	RESULT OBTAINED	REMARKS (SATISFACTORY/ UNSATISFACTORY)
1	DIAMETER	13.2(+0.05)mm		
2	LENGTH	2.5-3 METER		
3	BEND	MAX. DEVIATION 1.5mm ON 0.4METER LENGTH		
4	PARALLELISM	MAX.DIAMETER VARIATION IN ONE BAR IS 0.02MM(IT IS TO BE CHECKED AT 5 PLACES ALONG THE LENGTH)		
5	DAMAGE/CRACK	BY VISUAL INSPECTION		
6	INTERNAL CRACK/BLOW HOLES	SUPPLIER SHALL PROVIDE CRACK DETECTION TEST REPORT FROM NABL LAB.		
7	PACKING	THE MATERIAL SHALL BE PACKED PROPERLY WITH SUITABLE SUPPORT ALONG THE LENGTH SUCH AS FLAT WOODEN BOXES OR PLASTIC CYLINDERICAL ENCLOSER/ CONTAINER TO AVOID BENDING OF MATERIAL DURING TRANSPORTATION AND STORAGE.		

The supplier shall provide pre-dispatch material inspection report as per the above QAP along the supply of material.