

KALYANI STEELS LTD. HOSpet Road, Ginigera - 583228 Taluka ROSPET DIVISION Telphone: 08539 - 286603-08 (6lines) Test Certificate: Koppal, Karnataka. TEST Certificate: 08539 - 286611

YS UTS %EL %RA	TENSILE VALUES	96C 96Si 96Mn 96P 96S 96Ni 96C 96Si 96Mn 06P 96S 96Ni 96C 9100150 0300Max 120011500 0.025Max 0.010/0.025 0.300Max 96C 0100150 0.2750 1.2090 0.0120 0.0240 0.1820	CUSTOMER : SANJEEV AUTO PARTS MANUFACTURERS CUSTOMER SPECIFICATION NO ZF 7B Issue 2021-07
STRENGTH (IZOD/CHARPY)	IMPACT	%Ni %l .025 0.300Max 0.08 40 0.1820 0.0	MANUFACTURE
(BHN)	HARDNESS	%Mo %Cr 0.080Max 1.100/1.400 0.0590 1.2160	HEAT NO
J5mm J10mm J25mm J50mm	MECHANICAL PROPERTIES JOMINY VALUES (HRC)	CHEMICAL COMPOSITION CHEMICAL COMPOSITION CAPPM Bppm %As %Sb %Cr %Cu %Al %Sn %V N2ppm O2ppm H2ppm %Ti CaPPM Bppm %As %Sb 1.100/I.400 0.300Max 0.0200Max 90.0Min 25.0Max 0.005Max 30.0000Max 10.0000/30.0 0.005Max 1.2160 0.1030 0.0030 0.0036 116.000 9.000 0.0020 7.0000 14.0000 0.0005 0.0020	PROCESS ROUTE PROCESS ROUTE COLOR CODE ALF(RED+YELLO TC NO. K195389 DATE.13.09 TRUCK NO: HR55AG9699 ALF(RED+YELLO AS ROLLED 4 TO 6 METERS AS PER IS 3739
VALUE	D.I.	%Pb	.2024 JANTITY (MTS) 9.660

METAI
METALLURGICA
JICAL I
LPROPERITES
KILE
0

39/44 43.6

35/40 39.4

27/32

24Min 27.7

31.0

REMARKS 1 BLYOM SIZE 2007/200MM2 REDUCTION RATIO:1:12.05.	NA C2R2S2Max 2.0	THI	SPARKU STEP MACRO ETCH INCLUSION SPECTRAL DOWN RESULTS(ASTM Method' TEST TEST E-381) A B
	H T H T H 1.0 0.5 0.5 1.0 1.0 0.0 0.0 1.0 0.5 SINCLUSION RATIO	INCLUSION RATING (ASTM • E • 45) Method 'A' Plate I(Worst Fields) B C D H T H T H	
IG AS PER ISO 49 T:100% CHECKE	7.0	5 and finer	GRAIN SIZE (ASTM E-112)
67, REQ DS: 2MX. D, OK AS PER AS' ACTIVE ELEMEN	OK	OK	
, ACT:0.5. TM A388 4MM FBH TS".	VN	NA	SURFACE CORE UPSET DEFECT HARDNESS TEST LEVEL (mm) (OILQUENCH RESULTS (HRC)
	NA	NA	UPSET TEST RESULTS
	NA	NA	TOTAL DEPTH OF DECARBURIZATION IN mm

SCHAIN SIZE PREPARATION ACCORDING TO ZELS-53:TESTING ACCORDING TO ZELSO)6. $\mathbb{E}^{ER}(\eta)$, MATERIAL IS FREE FROM RADIOACTIVE ELEMENTS". ولل TRASONIC TEST: 100% CHECKED, OK AS PER ASTM A388 4MM FBH

2 MPI TEST 10% DONE & FOUND OK.

8, TEST CERTIFICATE: ACCORDINING TO DIN EN 10204_3.1"

9 THE HEAT IS REALEASED BY ZF"



MILLER



SJOMINY TEST PERFORMED ACCORDING TO ZF 15-53:TESTING AS PER ISO 642

100% 5& FINER. FINER 4 ACT %NB: 0.0022.

PREPARED RV

K.POMESH(Sr.GM-QAD)