

CUSTOMER NAME		PROCESS ROUTE		BLOOM SIZE (mm)		SUPPLY CONDITION		TC NO.		DATE	
M/S SSB ENGINEERS PVT		MBF-E0F-LRF-VD-CCW(EAS-AMLC)-RMS		200x200		As Rolled		25010423		11.01.2025	
CUSTOMER SPECIFICATION				SIZE (mm)		REDUCTION RATIO		LENGTH (mm)		COLOUR CODE	
DANA Specifications OF1001, Rev No.02, Dtd: 12.05.2020				50 DIA		20:37:1		5500 TO 6000		Yellow + Brown	
HEAT NO.				GRADE		Z0MINCRS		52955		INVOICE NO.	
52955				Z0MINCRS		50 DIA		20:37:1		31.850	
QTY (MT)				BUNDLE		INVOICE NO.		31.850		17	
JH05019679				JH05019679		JH05019679		JH05019679		JH05019679	
I. CHEMICAL COMPOSITION											
%	C	Si	Mn	P	S	Cr	Mo	Ni	Al	V	Ti
Min	0.150	0.150	1.000	-	0.015	1.000	-	-	0.020	-	-
Max	0.200	0.400	1.300	0.020	0.030	1.300	0.100	0.300	0.050	-	-
Actual	0.188	0.242	1.220	0.016	0.022	1.238	0.009	0.019	0.029	-	-
II. PHYSICAL PROPERTIES											
TENSILE PROPERTIES (Quenched & Tempered) (ASTM A370)											
YS (MPa)	UTS (MPa)	% EL	% RA	IMPACT TEST (Charpy)							
Min	930	1230	7	V-Notch (2mm) 25							
Max	-	1570	-	38.5							
Actual	1032	1258	14.2	43.5							
IV. METALLOGRAPHY											
INCLUSION RATING (ASTM E45 Method A)											
INCLUSION RATING (As per DIN 50602)											
TOTAL DECARB (mm)											
ASTM E-1077											
ASTM E-381											
C2,C3,C5 Max											
Better Than C2,C252											
OK											
V. OTHER TESTS											
STEP DOWN											
UPSET											
100% Bars Checked by UT - Found OK											
100% Bars Checked by MPI - Found OK & Material is free from surface defects											
100% Bars checked for Mix-Up by PMI & Spark - Found OK											
Material is free from Radioactive contamination											
VI. REMARKS:											
Dimension tolerance: as per IS 3739 Grade - 1											
Microstructure: Uniform Ferrite + Pearlite											
Banding is Ok As per UNI 8449											
The material is comply with ROHS (Pb,Cd,Hg,Cr+6) permissible limits.											
Material is conforming to the customer specification.											
Inspection Certificate as per EN10204-2004, type 3.1											