

1. MATERIAL: - SAE 8620 H OR 4120 STEEL (QL - 3)

Additional requirements: Ca:< 0.002%, S:0.01-0.04%, Cu:<=0.35%

- 2. HEAT TREATMENT: NORMALISED
- 3. HARDNESS 160 200 BHN.
- 4. FORGING TO BE SHOT BLASTED.
- 5. JOMINY VALUE J 4 / 16" = 30 ~ 34 HRC. 🖄 🖄
- 6. GRAIN SIZE: ASTM 5 TO 8 AS PER ASTM E112.
- 7. STEEL SHOULD BE FROM VACCUM DEGASSED ROUTE.
- 8. NONMETALIC INCLUSION RATING (WORST FEILD) OF CARBON & ALLOY STEEL BAR PRODUCT S & FORGING SHALL CONFORM TO THE FOLLOWING SPECS

QUALITY LEVEL	TYPE A		TYPE B		TYP	EC	TYPE D		
QL-3	THIN	HEAVY	THIN	HEAVY	THIN	HEAVY	THIN	HEAVY	
	3	2	3	2	1	1	2	1.5	

NOTE: NONMETALIC INCLUSION SHALL BE EVALUATED IN CONFORMANCE TO ASTM E 45, METHOD A, EXCEPT THAT FOR EACH INCUSION TYPE & THICKNESS, THE WORST FIELD RATING ON ANY TEST SPECIMENS (NOT THE AVERAGE OF WORST FIELD RATING ON INDIVIDUAL TEST SPECIMENS) SHALL BE USED TO DETERMINE THE FINAL RATING & REPORTED.

- 9. INTERNAL SOUNDNESS OF ALLOY STEEL BARS & FORGING
- S 3 Max., R 3 Max., C 3 Max. (GRAIN REFINER AI OR Nb.)
 REDUCTION RATIO GREATER THAN OR EQUAL TO 6:1
- 10. MICROSTRUCTURE:- UNIFORMLY DISTRIBUTED LAMELLER PEARLITE WITHOUT ANY INTERMEDIATE PRODUCTS OR PRONOUNCED BANDING.
- 11. UNSPECIFIED CORNER RADII: 2, FILLET RADII: 3, DRAFT ANGLES: 5°
- 12. FORGING TOLERANCES AS PER IS: 3469 (PART II)1974.
- 13. ALL DIMENSIONS ARE AT CROSSING POINT.
- 14. SPARK TESTING: 100% REQUIRED ADDED.

FOR REFERENCE ONLY DATE - 03.02.18

							ALL DIME	NSIONS A	ARE IN M	ILIMETERS
3	JOMINY VALUE J_{16}^{4} " = 30 ~ 34 HRc. WAS J_{16}^{4} " = 34 ~ 38 HRC. CHANGED; AS PER DCR NO. 1122					2.2.18	DO NOT S	SCALE, IF	IN DOUE	BT,PL. ASK
2	100% SPARK TESTING REQUIREMENT ADDED (Ref. DCR No.93)					A 7.3.12				
1	JOMINY VALUE 34 ~ 38 HRC WAS 30 ~ 35 HRC CHANGED AFTER DEVELOPMENT F / TO IMPROVE LOW CD ISSUE (DCR / ECN NO. 60)				ALM	15.6.10	MATERIAL			
REV.NO.	REVISIONS		PRPD	CHKD	APRD	DATE	SEE NOTE		Έ	
FORGING DRAWING			NAME		SIGN	DATE	SCALE HARD.			
	PLND	MRIDUL			11.02.10	NT. WT. PROJECTION		CTION		
	(HELICAL GEAR REVERSE DRIVE GEAR 23 T)	CHKD	R. P.				1.74 Kg	4	}	=
COMP.	ED-2045	APRD	B. LE	VA		\Box 1 Ψ		_		
(UN	COMMERCIAL VEHICLES LIMITED IIT: EICHER ENGINEERING COMPONENTS) 36, INDUSTRIAL AREA NO 3, A. B. ROAD, DEWAS (M.P.) 455 001		I		11 F	DRAWIN	IG NO.			REV.
COAD DRG:						SIZE : A4, (210 × 297 mm)				