



ELEMENT	CHEMICAL COMPOSITION (%)		
	STEEL 35 GOST 1050-74	STEEL 45 GOST 1050-74	Gde. C40 IS:1570 (REF:5517-79) (40C8)
C	0.32 - 0.40	0.42 - 0.50	0.35 - 0.45
Si	0.17 - 0.37	0.17 - 0.37	0.10 - 0.35
Mn	0.50 - 0.80	0.50 - 0.80	0.60 - 0.90
Cr	0.25 MAX.	0.25 MAX.	---
S	0.04 MAX.	0.04 MAX.	---
P	0.035 MAX.	0.035 MAX.	---
Ni	0.030 MAX.	0.030 MAX.	---
Cu	0.030 MAX.	0.030 MAX.	---

MECHANICAL PROPERTIES		
STEEL 35 GOST 1050-74	STEEL 45 GOST 1050-74	Gde. C40 IS:1570 (REF:5517-79) (40C8)
YIELD POINT Kg. / mm ² (MIN.) 32	YIELD POINT Kg. / mm ² (MIN.) 36	---
ULTIMATE TENSILE STRENGTH Kg. / mm ² (MIN.) 54	ULTIMATE TENSILE STRENGTH Kg. / mm ² (MIN.) 61	TENSILE STRENGTH N / mm ² 600 - 750
PERCENTAGE ELONGATION ϵ 5, % (MIN.) 20	PERCENTAGE ELONGATION ϵ 5, % (MIN.) 16	ELONGATION 5.69/A (MIN.) 18
REDUCTION OF AREA ψ , % (MIN.) 45	REDUCTION OF AREA ψ , % (MIN.) 40	---
IMPACT STRENGTH Kg.m / cm ² (MIN.) 7	IMPACT STRENGTH Kg.m / cm ² (MIN.) 5	IZOD IMPACT Joules (MIN.) 41
---	---	0.2 PERCENT PROOF STRESS MIN. 380 MPa
---	---	LIMITING RULING SECTION 63 mm.

12 DEC 2006
JWM/STD-CELL

NOTES:-

- DESCALE
- HEAT TREAT DIA OF IND ≥ 4 mm. (229 BHN MAX.)
- DEPTH OF SURFACE DEFECTS AND SCALE PITS UPTO 0.5 OF ACTUAL MACHINING ARE ALLOWED. ON NOT TO BE MACHINED SURFACES THEY SHOULD NOT EXCEED TOLERANCE LIMIT.
- MISMATCH SHOULD NOT EXCEED 1.2 mm.
- RESIDUAL FIN ALONG WITH PARTING LINE NOT TO EXCEED 1.5 mm.
- BUCKLING SHOULD NOT EXCEED 1.0 mm.
- MAY BE MANUFACTURED FROM STEEL 40 AND 35 GOST 1050-74.
- MARK PART No. SUITABLY.
- UNSPECIFIED RADII ARE TO BE 3 mm.
- UNSPECIFIED DRAFT ANGLE ARE TO BE 7°.
- UNTOLERANCE DIMNS ARE FOR CONSTRUCTION.
- MACHINING DIMNS ARE SHOWN IN BRACKETS.
- PILOT SAMPLE TO BE APPROVED BEFORE BULK SUPPLY.
- FORGING SHALL BE SUPPLIED IN NORMALISED CONDITION.

ALT. MATL : IS:1570 Gde.C40
AUTHORITY: CQA(HV) LETTER No. 091/IFD/IND-V/MTPF/OE
DATED: 24-03-2005

FIRST ANGLE PROJECTION.

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HOUSING (FORGING)		STEEL 45 GOST 1050-74	WEIGHT: 6.2 Kg
संख्या NO. OFF	विवरण DESCRIPTION	पुर्ण क्र. PART NO.	परिमाण DIMENSIONS
सामान्य सहिष्णुता GENERAL TOLERANCE		मानक STANDARD	अवशेषित REMARKS
रेखक परिमाण LINEAR DIMENSION			close fit was 38 & dia 15. deleted
कोणिक परिमाण ANGULAR DIMENSION			
मापक SCALE			
संख्या NO. OFF	संबंधित पुर्णक्र. आरेखण क्र. DRG. NO. OF ASSOCIATED PART	सूचक INDEX	संशोधन ALTERATION
2006	दिनांक DATE	नाम NAME	
HOUSING (FORGING)	मापक SCALE	आरेखित DRAWN	08-12
TRANSMISSION GEAR UNIT	जाँचा CHECKED	अनुमोदित APPROVED	VML
CODE - 45 / T-72&T-90	जाँचा CHECKED	अनुमोदित APPROVED	NTS
FOR COMPRESSION REDUCTION (175-45-0056b-A56)	आरेखण क्र. DRAWING NO.	175 - 45 - 036 A / F	
मशीनी औजार आदि रूप फैक्टर, अम्बरनाथ	मशीन D.O.		