

TEST CERTIFICATE-TECHNICAL SERVICES DEPARTMENT MUKAND ALLOY STEELS LIMITED
 16003733/04 HEAT NO: M123114 CIN:U27310MH2015PLC260936
 MUKAND ALLOY STEELS LTD -FARIDABAD INVOICE NO: 42/01753/04
 PLOT NO.1085, SECTOR -58, INVOICE DT: 28/04/18
 FARIDABAD, HARYANA, T.C.DATE : 28/04/18
 SPECNO MAC-TS-001B,R08
 TCNO: TC18042816003733/04
 PAGENO:1/1

THE MATERIAL SUPPLIED CONFORMS TO THE SPECIFICATION MENTIONED

GRADE SCM 420HV BUNDLES 9 COLOUR:
 SIZE 56.0 DIA WT(MT) : 24.830 SUPPLY COND:AS ROLLED & PICKLED
 ROUTE: MBF-EOF-LF-VD-CC-HR

	MIN	MAX	ACTUAL	MIN	MAX	ACTUAL
C %	.1700	.2000	.1890			
Mn %	.7700	.9000	.7930			
Si %	.1500	.3500	.1810			
P %		.0300	.0110			
S %	.0100	.0250	.0190			
Ni %		.2500	.0280			
Cr %	.8500	1.1500	1.0500			
Cu %		.3000	.0160			
Mo %	.1700	.2000	.1860			
Al %	.0200		.0250			
N2ppm		90	66			
O2ppm		15	15			
H2ppm		2.00	.80			

MECHANICAL	MIN	MAX	ACTUAL	TEST COND: HARDENED & TEMPERED
UTS (N /SQ MM)	932.00		945.00	
ELG% 4 X DIA	14.00		22.90	
RA %	40.00		66.00	

METALLURGICAL	MIN	MAX	ACTL
GRN SIZE(JIS G0551)	6	8	6 - 8
MICRO			AS ROLLED F+P+B
MACRO (ASTM E381)			C2R2S2

INCLUSION	A	B	C	D
(ASTM E-45A)T	H	H	H	H
STD MAX	2.00	1.00	.50	1.00
ACTUAL	1.50	.50	0.0	.50

JOMINY (MM)	13
MIN	27.0
MAX	30.0
ACT	28.0

AS ROLLED MIN: MAX: 240.00 ACT: 185.00 / 190.00 (B)
 BLOOM SIZE :- 200.0 MM SQR ; REDUCTION RATIO :- 16.2 : 1.
 BARS 100% MPI & SPARK / SPECTRO TESTED.
 MACHINE STRAIGHTENED.
 PROCESSED FOR SHIVAM AUTO.

GENERATED BY COMPUTER SRS
 TSD Helpline No:022-21727148

In case of any dissatisfaction
 Contact Chief Executive (Steel P)
 Mr A.M.Kulkarni, Mobile: 996700632
 MAIL: amkulkarni@mukand.com

Belapur Road, Dighe, P.O.Kalwe, Dist, Thane-400708, Tel: 91-022-21727500
 Regd Off: Thane-Belapur Road, Kalwe, Thane, Maharashtra-400605, maspl@mukand.