

QW Rept CHA/0-1790/029 26/3/18 at 9:38

TEST CERTIFICATE-TECHNICAL SERVICES DEPARTMENT MUKAND ALLOY STEELS PVT LTD
16002078/01 HEAT NO: M121826 CIN:U27310MH2015PTC260936
MUKAND ALLOY STEELS PVT LTD -FARIDABAD INVOICE NO: 42/04390/01
PLOT NO.1085, SECTOR -58, INVOICE DT: 15/03/18
FARIDABAD, HARYANA, T.C.DATE : 15/03/18
SPECNO MAC-TS-001B,R08
TCNO: TC18031516002078/01

THE MATERIAL SUPPLIED CONFORMS TO THE SPECIFICATION MENTIONED PAGENO:1/

GRADE SCM 420HV BUNDLES 9 COLOUR:
SIZE 56.0 DIA WT (MT) : 23.690 SUPPLY COND:AS ROLLED
ROUTE: MBF-EOF-LF-VD-CC-HR

	MIN	MAX	ACTUAL	MIN	MAX	ACTUAL
C %	.1700	.2000	.1790			
Mn %	.7700	.9000	.8040			
Si %	.1500	.3500	.2100			
P %		.0300	.0160			
S %	.0100	.0250	.0150			
Ni %		.2500	.0250			
Cr %	.8500	1.1500	1.0640			
Cu %		.3000	.0140			
Mo %	.1700	.2000	.1880			
Al %	.0200		.0290			
N2ppm		90	77			
O2ppm		15	11			
H2ppm		2.00	.60			

MECHANICAL	MIN	MAX	ACTUAL	TEST COND: HARDENED & TEMPERED
UTS (N /SQ MM)	932.00		965.00	
ELG% 4 X DIA	14.00		23.20	
RA %	40.00		66.00	

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

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

JOMINY (MM)	13
MIN	27.0
MAX	30.0
ACT	28.0

AS ROLLED MIN: MAX: 240.00 ACT: 185.00 / 190.00 (BHN)
BLOOM SIZE :- 200 MM SQR. ; REDUCTION RATIO :- 16.2 : 1.
BARS 100% MPI & SPARK / SPECTRO TESTED.
MACHINE STRAIGHTENED.
PROCESSED FOR SHIVAM AUTO.

GENERATED BY COMPUTER KVP
TSD Helpline No:022-21727148

In case of any dissatisfaction
Contact Chief Executive (Steel Plant)
Mr A.M.Kulkarni, Mobile:9967006322
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.com
A.Y. Phadke
Chief of Technical Services
Steel Division