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Sp. z o.o

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SWIADECTWO ODBIORU
INSPECTION CERTIFICATE
ABNAHMEPRÜFZEUGNIS
ACCORDING TO PN-EN 10204:2006
3.1.

Certificate No. Date
12220/2020(125) 2020-02-24

Confirmation No.
954872/2020 **1/*20

Department:
P20

Purchaser
Order No
24-25/19/FZD
dated
2020-01-09

Purchaser (631087484)
MULTISTAL & LOHMANN
SPÓŁKA Z O. O.
NAD WIERZBAKIEM 17/1
60-611 POZNAŃ
POLSKA

Hereby we declare that the product is conforming
with the standards and other records contented in this document.

Article	(NPO)	Delivery conditions (+SR)	Material destination (PWN)
Hot Rolled Round Bars		Stress Relieved	for mechanical working
Material 49MnVS3	standard W.nr 1.1199		Heat No 228798

Dimensions [mm] Diameter 73 +1,0/-1,0 Exact length: 6,000 [m]
Length tolerance[+/-]: 200,0 [mm] 0,0 [mm]

Weight[kg] 35.500 Bundles 12 Standards EN 10060:2003 *

Ladle chemical analysis [%]

C	Mn	Si	P	S	Cr	Ni	Cu	Mo	Al	Sn
0,44	0,94	0,37	0,008	0,043	0,17	0,230	0,25	0,060	0,023	0,013
Ti	V	N								
0,0029	0,085	0,0130								

-Mechanical properties

Direction Re [MPa] Rm [MPa] AS [%] Z[%]
L 592 851 18,0 42,5

Heat_treatments_test_specimens_(#)

according to ISO 6892-1

Normal.
1050 °C

-Hardness

surface
HBW = 207,0 - 212,0

according to EN ISO 6506-1

-Hardenability

surface
HRC = 55,0 - 56,0

according to EN ISO 6508-1

-Austenitic grain size

8 - 8

according to ISO 643

-Non-metallic inclusions K

-0-
K4 = 1,0

according to DIN 50602

Surface defect examination
Class B according to ISO 9443
Surface defects examination 100%
Spectrotest 100% - OK
UT SEP1920 cl.B gr.3
UT test - 100% - positive