

INSPECTION CERTIFICATE

In accordance with EN 10204: 3.1



Customer: **PRETEC AS**

Purchasing order No: **EX2019313/207645**

Order Quantity: **1000pcs**

Part Name: **Threaded rod DIN976 w/nut+washer M20×400, 8.8**

Material: **40Cr**

Execution: **Acc.To DIN976 8.8**

Finishing: **HDG**

Article No: **1080018**

Nut specification: **M20 ISO4032-8 HDG**

Washer specification: **M20 DIN436 HDG**

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Certificate No: 23940

Date: 2019-12-31

Chemical composition analysis for material ,ref certificate from mill:

Batch No.	PTC19110601	C	Si	Mn	P	S	Cr
Requirements	Max	0.44	0.37	0.80	0.035	0.035	1.10
	Min	0.37	0.17	0.50			0.80
Test Report		0.40	0.25	0.63	0.012	0.006	0.89

Inspection of mechanical properties:

DIM.	Yield Strength	Tensile Strength	Elongation	Hardness	Impact Test
	Rp0.2 (MPa)	Rm (MPa)	(EL)%	HRC	-20℃
Standard	≥660	≥830	≥12	23-34	≥27J
1	971	1043	17.5	31	81
2	966	1071	16.0	32	87

Inspection of execution:

DIM.	Dia.	Length	Straightness	HDG Thickness
Spec/mm	M20	400±2	5	≥50um
1	ok	401	ok	76
2	ok	400	ok	95
3	ok	401	ok	82
4	ok	401	ok	75
5	ok	401	ok	124

General appearance: ☒ approved ☐ not approved

HDG according to ISO 1461: ☒ approved ☐ not approved

All the data on the above form is real and valid.

Conclusion: ☒ Yes ☐ No

3.1 Inspection certificate are subject to change without notice.

Works inspector: Echo Xiang

Checked by: Jianbo Gu

Date: 2019-12-31

Zhejiang Pretec Metal Products Co., Ltd.

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