

**C. ADAMS & SONS LIMITED**  
**CERTIFICATE OF INSPECTION**

Certificate No: 20190313132

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Customer:			
Commodity:	DIN976-8.8 THREADED RODS HOT DIP GALVANIZED (TARIC CODE : 7318 154890)		
Size:	56X3000	Contract No.:	70022650
Grade:	8.8	Invoice No.:	
Head Marks:	8.8	Lot No.:	B60019532
Surface finished:	HOT DIP GALVANIZED	Order No.:	
Quantity:		Date:	2019-03-13

Percentage Composition Of Chemicals									
Material	Heat No.	C	Si	Mn	S	P	Cr	Mo	
42CrMo	8104937	0.410	0.250	0.880	0.002	0.015	0.980	0.200	

Dimensional Inspection: DIN976-1-2002						
Inspection Items	Sample	Standard		Test Result		Remarks
		Min.	Max.	Min.	Max.	
Nominal lengths	13	2989.5	3010.5	2997.9	3004.5	PASS
Thread diameter	13	55.365	55.925	55.68	55.79	PASS

Mechanical Property: ISO898-1-2013						
Inspection Items	Sample	Standard		Test Result		Remarks
		Min.	Max.	Min.	Max.	
Hardness [HRC]	3	23	34	26	28	PASS
Tensile strength [Rm/MPa]	3	830	/	885	897	PASS
Yield strength [Rp0.2/MPa]	3	660	/	875	885	PASS
Elongation [A/%]	3	12	/	14	14.5	PASS
Reduction [Z/%]	3	52	/	54	54.2	PASS

Surface Finish: EN ISO10684-2004							
Surface Finished:	Thickness	Sample	Standard		Test Result		Remarks
			Min.	Max.	Min.	Max.	
HOT DIP GALVANIZED	um	3	40		OK		PASS

Inspection certificate is acc. to EN10204-3.1.

The product described above has been tested and complies with the terms/conditions of order/contract

Quality Control Department:



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Certificate No: 20190624383

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Customer:			
Commodity:	DIN976-10.9 THREADED RODS WITH CHARPY PLAIN (TARIC CODE : 7318 154890)		
Size:	42X3000	Contract No.:	70023447
Grade:	10.9	Invoice No.:	
Head Marks:	10.9	Lot No.:	B60020071
Surface finished:	PLAIN	Order No.:	
Quantity:		Date:	2019-06-24

Percentage Composition Of Chemicals									
Material	Heat No.	C	Si	Mn	S	P	Cr	Mo	
42 CrMo	6103343	0.410	0.270	0.900	0.002	0.009	1.000	0.200	

Dimensional Inspection: DIN976-1-2002						
Inspection Items	Sample	Standard		Test Result		Remarks
		Min.	Max.	Min.	Max.	
Nominal lengths	13	2989.5	3010.5	3000	3004	PASS
Thread diameter	13	41.437	41.937	41.67	41.68	PASS

Mechanical Property: ISO898-1-2013						
Inspection Items	Sample	Standard		Test Result		Remarks
		Min.	Max.	Min.	Max.	
Tensile strength [Rm/MPa]	1	1040	/	1091	1099	PASS
Hardness [HV10]	1	320	380	339.5	344.5	PASS
Yield strength [Rp0.2/MPa]	1	940	/	989	998	PASS
Impact strength [KV/J]	1	27	/	29	32	PASS
Elongation [A/%]	1	9	/	16.5	16.5	PASS
Reduction [Z/%]	1	48	/	54	55	PASS
Decarburization [G/mm]	1	/	0.015	0	0	PASS

Surface Finish:							
Surface Finished:	Thickness	Sample	Standard		Test Result		Remarks
			Min.	Max.	Min.	Max.	

Inspection certificate is acc. to EN10204-3.1.

The product described above has been tested and complies with the terms/conditions of order/contract

Quality Control Department:

