

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

Certificate No: 202209261038

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Customer:			
Commodity:	ISO4032-12 HEX NUTS MK "S 12" BLACK (7318 169990)		
Size:	42	Contract No.:	70036246
Grade:	12	Invoice No.:	
Head Marks:	S 12	Lot No.:	NWF0005020
Surface finished:	BLACK	Order No.:	
Quantity:		Date:	2022-09-26

Percentage Composition Of Chemicals									
Material	Heat No.	C	Si	Mn	S	P	Cr	Mo	
35CrMo	1B10353	0.36	0.21	0.62	0.005	0.008	1.000	0.187	

Dimensional Inspection: DIN934						
Inspection Items	Sample	Standard		Test Result		Remarks
		Min.	Max.	Min.	Max.	
Thickness	8	32.4	34	33.69	33.86	PASS
Width across corners	8	71.3	/	73.44	73.58	PASS
Width across flats	8	63.1	65	64.11	64.46	PASS
Threads	8	6H		go gauge		PASS
		6H		no gauge		PASS

Mechanical Property: ISO898-2-2012						
Inspection Items	Sample	Standard		Test Result		Remarks
		Min.	Max.	Min.	Max.	
Hardness [HV]	3	295	353	342	344.6	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:



# C. ADAMS & SONS LIMITED

## CERTIFICATE OF INSPECTION

Certificate No: 202108261000

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Customer:			
Commodity:	DIN976-12.9 THREADED RODS PLAIN (TARIC CODE : 7318 154890)		
Size:	30X3000	Contract No.:	70032148
Grade:	12.9	Invoice No.:	
Head Marks:	12.9	Lot No.:	WW0007545
Surface finished:	PLAIN	Order No.:	
Quantity:		Date:	2021-08-26

Percentage Composition Of Chemicals									
Material	Heat No.	C	Si	Mn	S	P	Cr	Mo	
42CrMo	8103595	0.400	0.240	0.900	0.002	0.013	0.990	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	2996	2998	PASS
Thread diameter	13	29.522	29.947	29.7	29.73	PASS
Threads	13	6g		go gauge		PASS
		6g		no gauge		PASS

Mechanical Property: ISO898-1-2013						
Inspection Items	Sample	Standard		Test Result		Remarks
		Min.	Max.	Min.	Max.	
Tensile strength [Rm/MPa]	3	1220	/	1290	1294.9	PASS
Hardness [HV10]	3	385	435	405	408.5	PASS
Decarburization [G/mm]	3	/	0.015	0	0	PASS
Decarburization [E/mm]	3	1.61	/	1.89	1.89	PASS
Yield strength [Rp0.2/MPa]	3	1100	/	1103	1103.5	PASS
Elongation [A/%]	3	8	/	10.9	11	PASS
Reduction [Z/%]	3	44	/	49.1	50	PASS
Impact strength [KV/J]	3	27	/	47	48.7	PASS

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

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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

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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.	

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