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Certificate

Purchase Order PO26101646	Order Date 3/12/2026	Placed By Christopher Berger	McMaster-Carr Number 4162462-01	Number of Certificates 1
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Line	Product	Ordered	Status	Certificate
14	92005A116 Steel Pan Head Phillips Screw, M3 x 0.5 mm Thread, 6 mm Long	1 pack	1 pack delivers March 16	315-2589

CERTIFIED MATERIAL TEST REPORT FOR MACHINE SCREWS

FACTORY: Hai Yan Booming Fastener Co. Ltd.	DATE: 2024.12.12
ADDRESS: No.162 Chenxi North Road Hai Yan Zhejiang China	PO NUMBER:UC5965
COUNTRY OF ORIGIN: Hai Yan Zhejiang China	LOT# UC5965-662045
CUSTOMER: BRIGHTON-BEST INTERNATIONAL(TW), INC.	PART NO: 662045
SAMPLE SIZE: ACC. TO ASME B18.18 CATEGORY 2-2017; ASTM F1470-19	
DESCRIPTION: MACHINE SCREW,DIN 7985A CLASS 4.8,PAN HEAD PHILLIPS,ZINC CR+3(METRIC)	
SIZE: M 3-0.5x6 mm	QNTY: 216,000 PCS
HEADMARKS: NO	

STEEL PROPERTIES: Low Carbon Steel	TEST FACILITY: S
STEEL GRADE: ML08A1(Dia 6.5mm)	HEAT NUMBER: 824101354

CHEMISTRY SPEC:	C %	P %	S %	Mn %
	0.55 max	0.050 max	0.060 max	0.30--0.50
TEST:	0.07	0.017	0.007	0.34

DIMENSIONAL INSPECTIONS	SPECIFICATION: DIN 7985-1990	TEST FACILITY: M		
CHARACTERISTICS	SPECIFIED	ACTUAL RESULT	ACC.	REJ.

APPEARANCE	ASTM F788/F788M-2020	PASSED	100	0
THREAD	DIN13PART15-GO 6h/NO GO 6g	PASSED	32	0
Head Dia.	6--5.7	5.96--5.78	32	0
Head Height	2.52--2.28	2.51--2.3	32	0
Recess Depth	2--1.7	1.95--1.73	32	0
Driver Size	NO.1	O K	32	0
Major Dia.	2.98--2.88	2.92--2.9	32	0
LENGTH	6.25--5.75	6.17--5.9	32	0

MECHANICAL PROPERTIES:	SPECIFICATION: ISO 898-1:2013(E) CLASS4.8	TEST FACILITY: M			
CHARACTERISTICS	TEST METHOD	SPECIFIED	ACTUAL RESULT	ACC.	REJ.

CORE HARDNESS :	ISO 898-1:2013	HRB 71-95	92.5--90	8	0
TENSILE STRENGTH:	ISO 898-1:2013	Min 420 Mpa	448--430	4	0
PROOF LOAD	ISO 898-1:2013	Min 310 Mpa	345--330	4	0

CHARACTERISTICS	TEST METHOD	SPECIFIED	ACTUAL RESULT	ACC.	REJ.

COATINGS OF ZINC	SPECIFICATION: ASTM F1941/F1941M-2016 Fe/Zn 3AN	TEST FACILITY: S			
COATING THICKNESS	ASTM B568-98(2021)	Min 3µm	3.5--5.5 µm	8	0
Salt Spray Test Result	ASTM B117-2019	6 Hr no white rust and 12 Hr no Red Rust	PASSED	8	0

ZINC ELECTROPLATING WITH TRIVALENT CHROMATE (CR+3) IN COMPLIANCE WITH ROHS REQUIREMENTS

ALL TESTS IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE APPLICABLE SAE SPECIFICATION. WE CERTIFY THAT THIS DATA IS A TRUE REPRESENTATION OF INFORMATION PROVIDED BY THE MATERIAL SUPPLIER AND OUR TESTING LABORATORY. THE REPORT IS ISSUED ACCORDING TO ISO16228 F3.1(EN10204 3.1).

All parts meet the requirements of FQA and records of compliance are on file.

Maker's ISO# 12817Q20462R0M



沈红丽

(SIGNATURE OF Q.A. LAB MGR.)
(NAME OF MANUFACTURER)