

QUALITY CERTIFICATE

CUSTOMER: 7TMW INC.

CONTRACT NO.: 14MPT007G

PRODUCT: A325 BOLT+2H NUT+F436 WASHER

INVOICE NO.:

CLASS: A325

CODE:

SIZE: 3/4-10X5 (Holdup)

QUANTITY: 10,000 pcs

DIMENSIONS OF SPEC:

INSPECTION ITEMS	STANDARD	RESULT
VISUAL APPEARANCE		ok
BODY DIAMETER	19.51-18.52	18.92-18.95
THREAD	GO	
	NO GO	
WIDTH ACROSS FLATS	31.75-30.78	31.1-31.4
WIDTH ACROSS CORNERS	36.65-35.13	35.8-36.1
MAJOR DIAMETER	19.00-18.68	18.83-18.86
HEAD HEIGHT	12.27-11.56	11.8-12.0
SCREW LENGTH	127.00-122.97	124.2-125.89
THREAD LENGTH	FT	FT

MECHANICAL PROPERTIES

CHARACTERISTICS	STANDARD	RESULT
Hardness [HR]	max 34	29-31
Wedge Strength [N/mm ²]	min 826	921-982
Yield Strength [N/mm ²]	min 635	
Elongation [%]	min 14	
Reduction of area [%]	min 35	
Proof Load [kN]	126.3	126.3
Thickness [UM]	min 53	54-74

CHEMICAL COMPOSITION(%)

MILL HEAT	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	B
330200198	0.40	0.24	0.74	0.012	0.005	0.03	0.01	0.02		

Surface coating: HDG

Dimml Inspn: COMPLYING WITH THE STANDARD OF A325

The information on chemical composition is based on the test certificate received from the steel mill or supplier

Material described in this document has been inspected under the parameters set forth and found to be in conformance with the physical requirement

We certify the above product meets specific requirement thereof.

Quality Control Supervisor

Quality Control Manager