McMASTER-CARR®
330-995-5500
330-995-9600 (fax)
cle.sales@mcmaster.com

Certificate

Purchase Order	Order Date	Placed By	McMaster-Carr Number	Number of Certificates
P1502931	2/13/2024	Jon Wood	7969399-01	1

Line		Product	Ordered	Status	Certificate
1	4170N121	Ultra-Wear-Resistant AR500 Carbon Steel, 1/4" Thick, 6" x 12"	2 each	2 each deliver February 14	207–7837

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

SOLD TO MCMASTER-CARR SUPPLY COMPANY
P.O. BOX 5516
CHICAGO IL 60680-5516
USA

16500 ROCKSIDE ROAD
MAPLE HEIGHTS, OHIO 44137
TELEPHONE: 216-662-6111
FAX: 216-662-6107
WEB: www.cliftonsteel.com

DATE 3/1/2023
SALES ORDER 104828 Line 1 Rel 1
CUSTOMER PO# PA-97586800
CUSTOMER P.N.
QUANTITY SHIPPED 24
PRODUCED: USA

SPECIFICATION/DESCRIPTION
AR500-.25x6x12R

HEAT NUMBER: A71973

LOT / RAW MAT'L NO.:

TAG # IF APPLICABLE 849

CHEMICAL ANALYSIS

CARBON [C]	MANGANESE (MN)	PHOSPHORUS (P)	SULPHUR (S)	SILICON (SI)	ALUMINUM (AL)	COPPER (CU)	TIN (Sn)
0.3200	1.2200	0.0090	0.0030	0.2200	0.0240	0.0320	0.0100

CHROMIUM (Cr)	NICKEL (Ni)	MOLYBDENUM (MO)	COLUMBIUM (Cb or Nb)	VANADIUM (V)	NITROGEN (N)	BORON (B)	TITANIUM (Ti)
0.5900	0.0300	0.2400	0.0000	0.0110	0.0000	0.0010	0.0340

OTHER ELEMENTS	LEAD (Pb)	ANTIMONY (Sb)	ARSENIC (As)	ZIRCONIUM (Zr)	IRON (Fe)
	0.001	0.001	0.005	0.01	

MECHANICAL/PHYSICAL PROPERTIES

BHN	TENSILE MIN. (UTS)	YIELD MIN (YS)	ELONGATION (EL)	REDUCTION OF AREA (RA)
514				

CHARPY IMPACTS TEMPERATURE	SAMPLE SIZE	LONGITUDINAL	TRANSVERSE	AUSTENITIZED	QUENCH	TEMPER

SIGNATURE

Genevieve Cooper

Genevieve Cooper
Quality Assurance Technician

CSMF-096
Rev:03
10/26/2017