

Material Certification

Material Type: Copper, Cu

Description: 2.00" Diameter x 0.250" Thick, w/Keeper, For 2" Torus Mag Keeper

KJLC PN: EJTCUXX402TK4

Purity: 99.99%

Analysis Type: Typical, PPM by Wt.

Lot Number: 20991 / VR10-0043037

Ag: 12.7

As: 1.4

Bi: <1.0

Cd: <1.0

Fe: 1.1

Mn: <0.5

Ni: 4.2

O: 2.4

P: <1.0

Pb: <1.0

S: 5.6

Sb: <1.0

Se: <1.0

Sn: <1.0

Te: <1.0

Zn: <1.0

1925 Route 51

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Material Certification

Material Type: Chromium, Cr	
Description: 2.00" Diameter x 0.250" Thick, w/Keeper, for 2" Torus Mag Keeper	
KJLC PN: EJTCRXX352TK4	
Purity: 99.95%	Analysis Type: Typical, PPM by Wt.
Lot Number: GWM221027-45 / VR10-0044945	

Al: 5	N: 10	Si: 10
C: 20	Ni: 4	
Cu: 8	O: 140	
Fe: 48	S: 28	

Materials Technician: James McGrath

Date: 6/12/2023

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Material Certification

Material Type: Niobium, Nb		
Description: 1.00" Diameter x 0.125" Thick		
KJLC PN: EJTNBXX351A2		
Purity: 99.95% EX Ta	Analysis Type: Typical,% by Wt.	
Lot Number: 2021-Nb-F075 / VR10-0018333		

C: 0.0029
Fe: 0.0003
H: 0.0001
Hf: <0.0001
Mo: <0.0010

N: 0.0005
Nb: Remainder
Ni: 0.0004
O: 0.0076
Si: 0.0002

Ta: 0.0324
Ti: 0.0003
W: 0.0021
Zr: <0.0001

Materials Technician: Brian Moninger

Date: 10/6/2021

Material Certification

Material Type: Titanium, Ti

Description: 2.00" Diameter x 0.250" Thick

KJLC PN: EJTTIXX452A4

Purity: 99.995%

Analysis Type: Typical, PPM by Wt.

Lot Number: GWM211221-36 / VR10-0028636

Ag: <0.05

Al: 0.10

As: 0.02

Au: <0.05

B: <0.01

Ba: <0.005

Be: <0.005

Bi: <0.01

Ca: <0.2

Cd: <0.05

Ce: <0.005

Co: <0.01

Cr: 0.06

Cu: 0.20

Fe: 1.5

Ga: <0.05

Ge: <0.05

Hf: <0.01

Hg: <0.1

In: <0.05

Ir: <0.01

K: <0.01

Li: <0.01

Mg: 0.05

Mn: 0.06

Mo: <0.5

Na: <0.01

Nb: <0.2

Ni: 0.16

Os: <0.01

P: <0.01

Pb: <0.01

Pd: <0.01

Pt: <0.05

Re: <0.01

Rh: <0.05

Ru: <0.01

S: 0.02

Sb: <0.05

Sc: <0.05

Se: <0.05

Si: 0.21

Sn: <0.05

Ta: <2

Te: <0.05

Th: <0.0001

V: 0.01

W: <0.01

Zn: <0.05

Zr: <0.05

Material Certification

Material Type: Tantalum, Ta

Description: 2.00" Diameter x 0.125" Thick, Elastomer Bonded to Copper BP, OFHC 101, 2.00" Diameter x 0.125" Thick, w/Keeper & Screw, for Torus Mag Keeper 2

KJLC PN: EJUTAXX352TK4

Purity: 99.95%

Analysis Type: Typical, % by Wt.

Lot Number: 2023-Ta-D237 / VR10-0056444

C: 0.0027
Fe: <0.0001
H: 0.0002
Mo: <0.0010

N: 0.0005
Nb: 0.0043
Ni: <0.0001
O: 0.0068

Si: <0.0001
Ta: Remainder
Ti: <0.0001
W: 0.0038

Materials Technician: James McGrath

Date: 7/12/2023

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Material Certification

Material Type: Copper, Cu

Description: 3.00" Diameter x 0.250" Thick, w/Keeper, for 3" Torus Mag Keeper

KJLC PN: EJTCUXX503TK4

Purity: 99.999%

Analysis Type: Typical, PPM by Wt.

Lot Number: CUFA41052121021 / VR10-0065839

Al: 0.649
C: <10
Ca: <0.01
Cl: 0.004
Co: <0.002

Cr: <0.003
Fe: 0.01
K: <0.008
Mg: <0.002
N: <0.1

Ni: <0.005
O: 1.22
S: <10
Si: <0.01

Materials Technician: James McGrath

Date: 2/8/2024

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Material Certification

Material Type: Chromium, Cr	
Description: 2.00" Diameter x 0.250" Thick, w/ Keeper, For 2" Torus Mag Keeper	
KJLC PN:	EJTCRXX352TK4
Purity:	99.95%
Lot Number:	GWM230213-69 / VR10-0052669
Analysis Type: Typical, PPM by Wt.	

Al: 5
C: 20
Cu: 8
Fe: 48

N: 10
Ni: 4
O: 140
S: 28

Si: 10

Materials Technician: Brian Moninger

Date: 8/18/2023