Print Report

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MATERIAL SPECIFICATION

INTEL CONFIDENTIAL

Intel Part Desc: TARGET,300MM,MAT Y,4N5,YES
Intel Part Nbr: 500390396
Intel Part Rev: 05
Part Notes:

Supp. Nbr: 109575
Supp. Part Nbr: AMAT-445-V12-COMP-63665
AML Status: ENGINEERING
AML Notes:

Data Entry: 08/18/2020 SPEEDWEB
Intel Approval:
Effective:

Package and Storage Information

EHS Number: NM-A2041
Shelf Life: 12 Months

Individual Container Size: 0

Net Contents: 5.2 Kilogram Container

500390396 MAT Y AMAT TARGET

Notes:
CHEMGAS Notes:

Assay Composition

Parameter	Source	Src Abbr	- Tolerance	+Tolerance	Target	UofM	Test Code	Meas Qual.	Freq.	Key Parameter
Selenium			1.00	1.00	51	%	ZSE	w/w	Batch	Key
Arsenic			1.00	1.00	30.6	%	ZAS	w/w	Batch	Key
Germanium			1.00	1.00	12.7	%	ZGE	w/w	Batch	Key
Silicon			1.00	1.00	5.7	%	ZSI	w/w	Batch	Key

Functional Specifications

Parameter	Source	Src Abbr	- Tolerance	+Tolerance	Target	UofM	Test Code	Meas Qual.	Freq.	Key Parameter
Target Blank Thickness			0.1	0.1	7.5	mm	TAR_BTHK		Individual	Key
BP Diameter			0.13	0.13	523.88	mm	BP_DIA		Individual	Key
BP Flange Thickness			0.13	0.13	12.7	mm	BP_FTHK		Individual	Key
BP Overall Height			0.13	0.13	17.65	mm	BP_OH		Individual	Key
Target Diameter			0.13	0.13	444.7	mm	DIA_TAR		Individual	Key
Target Thickness			0.13	0.13	5.97	mm	THK_TAR		Individual	Key

Parameter	Source	Src Abbr	Value	UofM	Test Code	Meas Qual.	Freq.	Key Parameter
Target Blank 2mm Top Rad			Go/No Go	mm	TAR_BTOP		Individual	Key
BP Bonded Surface Flatness			Read/Record	mm	BP_BSF		Individual	Key

Parameter	Source	Src Abbr	Min	Max	UofM	Test Code	Meas Qual.	Freq.	Key Parameter
Density			4.3	4.4	g/cm3	DEN		Individual	Key
Weight			3898.1	4168.8	g	Weight		Individual	Key
Target Blank Flatness				0.127	mm	TAR_BFLA		Individual	Key
Target Blank Parallism				0.127	mm	TAR_BPAR		Individual	Key
Target Blank Surface Roughness			0.5	1	um	TAR_BSUR		Individual	Key
BP Backside Flatness				0.15	mm	BP_BF		Individual	Key

Trace Metals

Parameter	Source	Src Abbr	Min	Max	UofM	Test Code	Meas Qual.	Freq.	Key Parameter
Aluminum				10	ppm	ZAL	w/w	Batch	Key
Bismuth				5	ppm	ZBI	w/w	Batch	Key
Chromium				10	ppm	ZCR	w/w	Batch	Key
Copper				10	ppm	ZCU	w/w	Batch	Key
Iron				10	ppm	IA	w/w	Batch	Key
Gallium				5	ppm	GH	w/w	Batch	Key
Magnesium				5	ppm	ZMG	w/w	Batch	Key
Manganese				5	ppm	ZMN	w/w	Batch	Key
Nickel				10	ppm	ZNI	w/w	Batch	Key
Lead				5	ppm	ZPB	w/w	Batch	Key
Scandium				5	ppm	SCA	w/w	Batch	Key
Sulfur				10	ppm	ZS	w/w	Batch	Key
Titanium				10	ppm	ZTI	w/w	Batch	Key
Yttrium				5	ppm	YTR	w/w	Batch	Key
Tungsten				5	ppm	TUNG	w/w	Batch	Key
Zirconium				10	ppm	ZZR	w/w	Batch	Key
Total Metallic Impurities				50	ppm	TMI	w/w	Batch	Key

Vapor Phase Impurities

Parameter	Source	Src Abbr	Min	Max	UofM	Test Code	Meas Qual.	Freq.	Key Parameter
Oxygen				700	ppm	ZO	w/w	Batch	Key
Nitrogen				10	ppm	ZN	w/w	Batch	Key