

# Visual Criteria (VC) Specification

OPT-SPEC-1003, Rev B

Visual Criteria (VC) summarized over 25mm diameter area of product or cut part. Large product sizes may not be available for all VC specifications.

Defect	VC0		VC1		VC2		VC4		Defect	VCIR	
	Spec	#Allowed	Spec	#Allowed	Spec	#Allowed	Spec	#Allowed		Spec	#Allowed
<b>Contamination (Glass side)</b>	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	<b>Contamination (Silicon side)</b>	>0.50mm 0.25-0.50mm <0.25mm	1 10 no limit
<b>Liquid contamination (Al side)</b>	in clear aperture	none	in clear aperture	none	in clear aperture	none	in clear aperture	none	<b>Liquid contamination (Al side)</b>	in clear aperture	none
<b>Particulate Contamination (Al side)</b>	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	<b>Particulate Contamination (Al side)</b>	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit
<b>Dimensional</b>	Outside Customer Spec	none	Outside Customer Spec	none	Outside Customer Spec	none	Outside Customer Spec	none	<b>Dimensional</b>	Outside Customer Spec	none
<b>Edge Chip</b>	W>1.0mm L>2.0mm d>D/2 Prog Crack	none none none none	W>1.0mm L>2.0mm d>D/2 Prog Crack	none none none none	W>1.0mm W<1.0mm L>2.0mm d>D/2 Prog Crack	none 1 none none none	W>1.0mm W<1.0mm L>2.0mm d>D/2 Prog Crack	none 5 none none none	<b>Edge Chip</b>	in clear aperture prog crack	none none
<b>Eyeballs</b>	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.50mm 0.30-0.50mm <0.30mm	none 6 no limit	>1.00mm 0.30-1.00mm <0.30mm	none 6 no limit	<b>Eyeballs</b>	>1.00mm 0.30-1.00mm <0.30mm	none 6 no limit
<b>Dig</b>	>0.15mm	none	>0.15mm	none	>0.30mm	none	>0.50mm	none	<b>Dig</b>	>0.50mm	none
<b>Pinholes</b>	>0.15mm <0.15mm	none no limit	>0.30mm 0.15-0.30mm <0.15mm	none 4 no limit	>0.50mm 0.30-0.50mm <0.30mm	none 4 no limit	>1.50mm 0.60-1.50mm <0.60mm	none 5 no limit	<b>Pinholes</b>	>1.50mm 0.60-1.50mm <0.60mm	none 5 no limit
<b>Scratches (Al)</b>	W>0.03mm L>5.0mm	none none	W>0.03mm L>5.0mm	none none	W>0.10mm L>10.00mm	none none	W>0.10mm L>25.0mm W=0.05-0.10mm L=15.0-25.0mm W<0.05mm L<15.0mm	none none 1 1 no limit no limit	<b>Scratches (Al)</b>	W>0.10mm L>25.0mm W=0.05-0.10mm L=10.0-25.0mm W<0.05mm L<10.0mm	none none 1 1 no limit no limit
<b>Scratches (Glass)</b>	W>0.05mm L>10.0mm	none none	W>0.05mm L>10.0mm	none none	W>0.07mm L>15.0mm	none none	W>0.08mm L>25.0mm W=0.05-0.08mm L=15.0-25.0mm W<0.05mm L<15.0mm	none none 1 1 no limit no limit	<b>Scratches (Silicon)</b>	W>0.25mm L>25.0mm W=0.10-0.25mm L=10.0-25.0mm W<0.10mm L<10.0mm	none none 2 2 no limit no limit
<b>Spin Defect</b>	in clear aperture	none	in clear aperture	none	>10mm	none	>10.0mm	none	<b>Spin Defect</b>	>10.0mm	none
<b>Spot</b>	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.50mm 0.30-0.50mm <0.30mm	none 4 no limit	>1.50mm 0.60-1.50mm <0.60mm	none 5 no limit	<b>Spot</b>	>1.50mm 0.75-1.50mm <0.75mm	none 5 no limit
<b>Stains</b>	crossed parallel	none none	crossed parallel	none none	>10.0mm <10.0mm	none no limit	>20.0mm 10.0-20.0mm <10.0mm	none 1 no limit	<b>Stains</b>	>20.0mm 10.0-20.0mm <10.0mm	none 1 no limit



452 West 1260 North / Orem, UT 84057  
Toll Free / 1.800.758.3110  
[www.moxtek.com](http://www.moxtek.com)  
[info@moxtek.com](mailto:info@moxtek.com)