

REPORT

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Order No. G100789754 Revision Date: June 12, 2013

Original Issue Date: June 10, 2013

REPORT NO. 100789754CRT-012

TEST OF SAFETY GLASSES

MODEL

DELTA CLEAR

RENDERED TO

VICSA SAFETY SA PINTOR CICARELLI 683 8950002 SAN JOAQUIN, CHILE

REVISION NOTE:

Corrected model name from Discovery Clear to Delta Clear.

DATA REQUESTED

The client requested optical testing to Section 5 of ANSI Z87.1.

AUTHORIZATION

This test service was authorized by signed quote number 500386937.

<u>REFERENCE DOCUMENTS</u>: The following Test Standards were used in part or in total to test

each sample:

ANSI Z87.1 2010 American National Standard for Occupational and Educational

Personal Eye and Face Protection Devices

ASTM D1003 2007 Standard Test Method for Haze and Luminous Transmittance of

Transparent Plastics

DEVICES SUBMITTED

The sample was received by Intertek in undamaged condition, and was tested as received. The sample designation is 789754-28

DATES OF TESTS

June 7 through June 10, 2013



EQUIPMENT LIST

Equipment Used	Model Number	Number	Calibration Date	Due Date
Optronics Spectroradiometer	OL750D	E288	06/07/13	06/08/13
Gardner Hazemeter	XL211	N328	06/07/13	07/07/13
Extech Hygrothermometer	445703	T1366	11/08/12	11/08/13
Intertek 100ft Goniometer	NA	N060	08/14/12	08/14/13

TESTS

Section 5.1.1 Optical Quality:

Lenses shall be free of striae, bubbles, waves and other visible defects which would impair their optical quality.

Section 5.1.2 Luminous Transmission:

Report No. 100789754CRT-012

Clear lenses shall have a luminous transmission of not less than 85%. Clear and Filter lenses shall be labeled in accordance with Table 4a of ANSI Z87.1. Plano and prescription lenses shall comply with Tables 6-10 of ANSI Z87.1 where applicable.

Section 5.1.3 Haze:

Clear and plano lenses shall not exhibit more than 3% haze.

Section 5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance:

Lenses shall meet the tolerances for Refractive Power, Astigmatism and Resolving power as specified in Table 1 of ANSI Z87.1. Lenses shall meet the tolerances for Prism and Prism Imbalance as specified in Table 2 of ANSI Z87.1.

Table 1: Tolerance on Refractive Power, Astigmatism and Resolving Power								
Protector Refractive Power Astigmatism Resolving Power								
Spectacle	± 0.06 D	≤ 0.06 D	Pattern 20					
Goggle	± 0.06 D	≤ 0.06 D	Pattern 20					
Faceshield Windows	No Requirement	No Requirement	Pattern 20					
Welding Helmet Lenses	± 0.06 D	≤ 0.06 D	Pattern 20					

Table 2: Tolerance on Prism and Prism Imbalance								
Protector Prism Vertical Imbalance Base In Imbalance Imbalance								
Spectacle	≤ 0.50 ∆	≤ 0.25 ∆	≤ 0.25 ∆	≤ 0.50 ∆				
Goggle	≤ 0.25 ∆	≤ 0.125 ∆	≤ 0.125 ∆	≤ 0.50 ∆				
Faceshields	≤ 0.37 ∆	≤ 0.37 ∆	≤ 0.125 ∆	≤ 0.75 ∆				
Welding Lenses	≤ 0.50 ∆	≤ 0.25 ∆	≤ 0.25 ∆	≤ 0.75 ∆				



RESULTS OF TEST

Section	5 1	1	Ontical	Quality:

_	Control Number	Model Number	Defects	Notes	Pass/Fail
	789754-08	DELTA CLEAR	None		Pass

Section 5.1.2 Luminous Transmission:

		Percent Tra		
Control Number	Model Number	Left Eye	Right Eye	Pass/Fail/NA
789754-08	DELTA CLEAR	91.5	91.3	Pass

Section 5.1.3 Haze:

		Percer		
Control Number	Model Number	Left Eye	Right Eye	Pass/Fail/NA
789754-08	DELTA CLEAR	0.29	0.18	Pass

Section 5.1.4 Refractive Power, Astigmatism, Resolving Power

Control Number	Model Number	Eye	Refractive Power (diopters)	Astigmatism (diopters)	Resolving Power	Pass/Fail
789754-08	DELTA CLEAR	Left Right	0.00 0.00	0.04 0.03	48 48	Pass

Section 5.1.4 Prism and Prism Imbalance

				Vertical	Base in	Base Out	
Control	Model		Prism	Imbalance	Imbalance	Imbalance	
Number	Number	Eye	(Δ)	(Δ)	(Δ)	(Δ)	Pass/Fail
789754-08	DELTA	Left	0.06	0.03	0.02		Door
709734-00	CLEAR	Right	0.04	0.03	0.03		Pass

Transmittance Ratings

Control	-		Visible Light Transmittance		UV Transm	nittance (%)	
Number	Model Number	Eye	(%)	L-Scale	Far UV	Near UV	U-Scale
789754-08	DELTA CLEAR	Left Right	91.5 91.3	Clear	0.00	0.00	U6



PHOTO OF SAMPLE(S):

DELTA CLEAR



In Charge Of Tests:

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