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Certificate of Test - Fabric Belting

Document N° Lab 102
Revision 5

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Client:	APPLIED CONVEYORS	Belt Number:	F6149
Project:	APPLIED CONVEYORS	Order No:	107832
Length (m):	300	Date of Manufacture:	26-Nov-03
Width (mm):	2x900	Fabric Quality:	PN
Ply:	3	Rated Tension of belt:	500
Cover Thickness (mm)	Carry 4 mm Pulley 2 mm	Grade of covers:	Z- Quarrymaster / A

Laboratory tested to AS 1334 (or other applicable standards) Methods of Testing conveyor and elevator belting:

Method 2- Thickness of Belting and Rubber Covers Across Width	Mean thickness of Belting	10.70	mm
	Minimum thickness of belting	10.60	mm
	Maximum thickness of belting	20.76	mm
	Mean thickness of Top cover	5.16	mm
	Mean thickness of bottom cover	2.30	mm

Method 3- Full thickness Tensile Strength and Elongation of Conveyor Belting	Number and type of Longitudinal:		3 "B" Type				
	Specimens tested:		Transverse: 3 "A" Type				
	Test Piece	Longitudinal			Transverse		
		Tensile kN/m	E@10% Spec. Tensile, %	E@ Break. %	Tensile kN/m	E@ Break. %	
	1	499	1.3	15.6	206	19.1	
	2	501	1.1	15.2	202	19.0	
	3	500	1.2	15.3	206	19.2	
Mean	500	1.2	15.4	205	19.1		

Method 4- Troughability of Conveyor Belting	Flat Width of Belting:	900	mm
	Troughability Value:	0.381	

AS1683.11 & AS1683.26 Tensile Strength and Elongation of Covers & Resistance of Covers to Ageing		Unaged values				Values After Ageing 24h @ 100° C			
		Carry cover		Pulley cover		Carry cover		Pulley cover	
	Test Piece	Tensile MPa	Elong %	Tensile MPa	Elong %	Tensile MPa	Elong %	Tensile MPa	Elong %
	1	24.6	439	20.7	531	21.3	333	18.2	399
	2	25.2	445	20.5	513	20.1	328	19.7	415
	3	25.1	442	19.6	507	21.4	354	20.5	421
	4	25.0	433	19.6	494	21.8	360	20.5	458
	5	25.6	463	19.2	493	21.3	347	19.4	446
	Average	25.1	444	19.9	510	21.2	344	19.6	430
	Percentage change from Originals					-15.5	-22.5	-1.5	-15.7
Number of samples Tested		5		5		5		5	

AS1683.15.2 Durometer Hardness of Covers	Carry Cover			Pulley cover		
	Hardness, H _A /1		61	Hardness, H _A /1		58

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Method 7 Ply Adhesion of Conveyor Belting		Longitudinal Direction, kN/m			Transverse Direction, kN/m		
		Mean value of 2 Tests	Min. Value of stripping Load Curve		Mean value of 2 Tests	Min. Value of stripping Load Curve	
			Test 1	Test 2		Test 1	Test 2
		Carry Cover - Ply 1	13.8	13.1	13.5	8.1	7.6
Ply 1 - Ply 2	12.3	12.0	12.1	9.1	9.0	7.9	
Ply 2 - Ply 3	11.5	11.1	10.8	8.8	8.7	8.3	
Ply - Pulley Cover	6.7	5.8	6.8	5.3	5.0	5.2	

Method 8- Resistance to Tear Propagation and Resistance of Carcass to Tearing	Arrangement A			Arrangement B		
	Mean value	0.60	kN	Mean value	0.60	kN
	Type of Tear: WEFT THREAD TORE					

AS1683.21 Abrasion Resistance	Carrying		Pulley
	Relative Volume loss, mm ³	111.4	47.5

The above results comply with the requirements of AS1332

D Knowles

Technical Officer

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