

The table below outlines the break down by micron group, the export figures to China for the 2008/2009 season. (Source Beef & Lamb NZ)

<u>Wool Type</u>	<u>Micron</u>	<u>Total Production (greasy tons)</u>	<u>NZ Scoured (greasy tons)</u>	<u>Scoured %</u>
Strong Xbred	35 - 40	12,052	9642	80%
Fine Xbred	32 - 34	16,918	6767	40%
Mid Micron Halfbred	25 - 31	21,167	2117	10%
Fine Merino	12 - 24	5,280	528	10%
Totals		55,417	19,054	

The table below outlines the scouring and other characteristics of the fine wool clip when compared to the coarser wool clip

<u>Wool Type</u>	<u>Labour required in scouring</u>	<u>Scouring speed</u>	<u>Wool Grease Recovered</u>	<u>Wool scour technology</u>	<u>End use</u>	<u>Australian Production</u>
Coarse Xbred	Very low	Very fast	Two percent	Cardmaster	Carpets	One per cent
Fine Xbred	Very low	Fast	Two-Three percent	Cardmaster	Carpets and knitware	Three per cent
Mid Micron	Medium	Medium	Four percent	Topmaster	Knitware and apparel fabrics	Ten percent
Merino	Very high	Very slow	Six percent	Topmaster	Fine fabrics	Eighty six percent

Over the past two years the commission scouring business of NZWSI has materially increased. Set out below are the comparative figures for Whakatu and Kaputone in kgs.

	Whakatu	%	Kaputone	%
2008/2009				
Commission	235,327	1.14%	1,703,312	9%
NZWSI	20,418,784	98.86%	18,699,295	91%
2009/2010				
Commission	2,693,436	10.2%	4,136,592	17%
For NZWSI	23,713,538	89.8%	20,977,633	83%
2010/2011	(to 30/4/2011)		(to 31/3/2011)	
Commission	3,151,596	13.30%	6,055,241	25%
NZWSI	20,535,798	86.70%	17,903,280	75%

NZ WOOL EXPORTS TO CHINA (NZWSI)

	<u>GREASY / SLIPE</u>	<u>SCoured</u>	<u>TOTAL</u>	<u>SCD % TOTAL</u>
2007/8	23,658 (1,280)	13,587 (6,493) 42.8	37,245 (7,773) 20.9	36.5
2008/9	27,000 (2,287)	14,483 (7,341) 50.7	41,483 (9,628) 23.2	34.9
2009/10	27,994 (1,589)	18,288 (8,423) 46.0	46,282 (10,012) 21.6	39.5
2010 1/7/2010-31/12/2010	11,316 (589)	8,994 (4,952) 55.0	20,310 (5,541) 27.3	44.3



天宇羊毛工业（张家港保税区）有限公司

TIANYU WOOL INDUSTRY (ZHANGJIAGANG FREE TRADE ZONE) CO., LTD.

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Tianyu Wool Industry (Zhangjiagang Free Trade Zone) Co., Ltd, a large top-making company, owns the largest scouring factory in the world, which consists of three 3-meter lines and three 2-meter lines. All these scouring lines, made by New Zealand Andar Holdings, mainly scour Australian fine merino wools with a total capacity of 80,000 tons per year.

We don't have plan to scour New Zealand wool, due to the reasons 1) our scouring lines are set for fine merino wool, instead of crossbred wool; 2) we can only extract maximum 2% grease from New Zealand Crossbred wool, while we can extract upto 6% from Australian merino wool; Thus it is not economical for us to scour New Zealand Wool. Therefore, we are either not a rival, nor a competitor to New Zealand wool scouring industry.

Tianyu Wool Industry (Zhangjiagang Free Trade Zone) Co. Ltd



Wen Qingan
Managing Director

18 April, 2011

Classification by Fibre Diameter and Wool Type (09-10)

(c) Australian Wool Exchange Ltd

Selling Centre/Storage Country

Micron Range	Sydney /AUS	Newcastle /AUS	Melbourne /AUS	Melbourne /NZL	Launceston /AUS	Fremantle /AUS	National
Merino Fleece							
12.5 and finer	1	3	5				9
12.6-13.5	6	36	28	8			78
13.6-14.5	119	327	156	159	3	9	773
14.6-15.5	1,231	1,832	1,840	953	43	333	6,232
15.6-16.5	7,996	6,261	9,118	3,634	310	2,896	30,215
16.6-17.5	25,477	11,678	30,328	6,833	611	13,543	88,470
17.6-18.5	44,995	10,516	58,467	5,126	644	36,248	155,996
18.6-19.5	60,454	6,237	75,898	1,250	531	61,256	205,626
19.6-20.5	68,124	4,900	91,139	321	176	75,998	240,658
20.6-21.5	49,044	3,237	96,511	48	67	59,479	208,386
21.6-22.5	20,101	1,139	88,995	14	3	27,260	137,512
22.6-23.5	5,970	175	48,626			7,408	62,179
23.6-24.5	1,554	47	14,457			1,490	17,548
24.6-25.5	354	8	2,501			212	3,075
25.6-26.5	156		664			56	876
26.6-27.5	75		108			30	213
27.6-28.5	40		20			26	86
28.6-29.5	11		4			31	46
29.6-30.5	14	2	4			22	42
32.6-33.5	7					3	10
Merino Skirtings							
12.6-13.5	1	2	7				10
13.6-14.5	18	77	45	10		1	151
14.6-15.5	372	641	532	90	19	77	1,731
15.6-16.5	3,390	2,792	3,170	551	118	683	10,704
16.6-17.5	11,798	5,307	11,618	920	221	3,866	33,730
17.6-18.5	22,074	4,087	23,846	964	139	12,038	63,148
18.6-19.5	26,635	2,185	28,884	426	87	20,517	78,734
19.6-20.5	21,109	1,376	30,450	78	10	16,091	69,114
20.6-21.5	6,525	428	23,350	14		5,386	35,703
21.6-22.5	1,098	34	9,857			1,018	12,007
22.6-23.5	269	1	1,224			158	1,652
23.6-24.5	47		183			7	237
25.6-26.5	22		8				30
26.6-27.5	2		3				5
27.6-28.5	5		8				13
28.6-29.5	6		2				8
32.6-33.5			2				2
Oddments							
12.6-13.5	2		4				6
13.6-14.5	2	9	17				28
14.6-15.5	121	107	185			30	443
15.6-16.5	1,395	822	1,760			317	4,294
16.6-17.5	4,885	1,342	6,446			2,210	14,883
17.6-18.5	9,712	1,212	16,488	8		11,211	38,631
18.6-19.5	10,332	772	20,063	3		16,179	47,349
19.6-20.5	7,880	502	17,680			9,673	35,735
20.6-21.5	4,784	308	12,351	8		4,617	22,068
21.6-22.5	3,257	153	7,658			3,405	14,473
23.6-24.5	3,857	173	6,662			2,537	13,229
26.6-27.5	1,886	88	2,863			76	4,913
28.6-29.5	453	13	1,146			23	1,635
30.6-31.5	333	8	693			43	1,077
31.6-32.5	160	2	470			8	640
32.6-33.5	40		202			4	246
33.6-34.5	13		39				52
35.6-36.5	2		22				24
36.6-37.5	3		12				15
38.6-39.5			4				4
39.6 and Broader	2		10				12

THE BEST THAT NATURE HAS TO OFFER

A NATURAL RESOURCE



SUPERFINE WOOL

The finest and most valuable of all fibres grown in many parts of the world come together to form the absolute best in luxury clothing and design.



FINE WOOL

Specialist wools with the handle and feel demanded by modern fashions. bred in some of the most spectacular regions to provide warmth and comfort.



COARSE WOOL

These wool fibres are provided with specific properties ideally suited to creating high performance fabrics and carpets for our homes.



APPAREL FIBRE >>> TO GRADING >>

APPAREL WOOL CHARACTERISTICS			
	MINIMUM	AVERAGE	MAXIMUM
MICRON	18	20	22
GREASE %	10	15	25
SUDDY %	2	6	12
DIRT %	6	20	45



INTERIOR FIBRE >>> TO GRADING >>

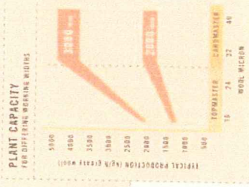
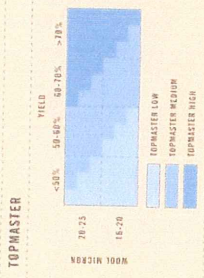
INTERIOR WOOL CHARACTERISTICS			
	MINIMUM	AVERAGE	MAXIMUM
MICRON	25	32	40
GREASE %	2	6	9
SUDDY %	2	8	12
DIRT %	3	8	13

SCOURING HIGH PERFORMANCE SYSTEMS

The Topmaster scour is a high performance scour designed principally for the demanding requirements of processing fine combing wools. This system offers the flexibility in processing to accommodate coarser carding wools, providing a scouring system with total versatility. For specialist superfine processing the Topmaster LE is considered the most important setting on any worsted card. This line offers the highest levels of processing performance, incorporating the most advanced scouring technologies for fibre preservation.



TOPMASTER



FIBRE SCOUR LINE PREP

CARDMASTER

The Cardmaster is a high performance scour specifically designed for the rigorous demands and high volume processing associated with coarser carding and carpet wools. Optimum scouring is achieved providing good colour, low residual grease and ash levels. The inclusion of self cleaning machinery and energy efficient systems allows for continuous operation, high productivity and high levels of mechanical reliability.



LOOSE STOCK TREATMENTS

YARN CARPET TREATMENTS

APPAREL PROCESSES

ENVIRONMENTAL PROCESSES

EXTENSIVE PRODUCT RANGE

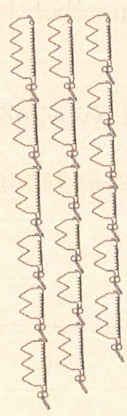
The selection of appropriate scouring configurations is easy with the broad range of ANDAR systems available. The extensive range of scour configurations can be easily selected based upon the known processing parameters including volume, micron and yield.

TOPMASTER

HIGH YIELD

MEDIUM YIELD

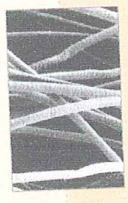
LOW YIELD



TOPMASTER LE (Low Entanglement)

HIGH YIELD

MEDIUM YIELD



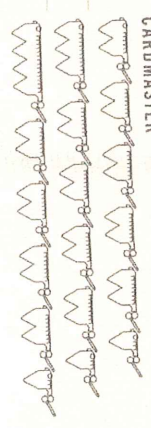
EFFLUENT TREATMENT

CARDMASTER

HIGH YIELD

MEDIUM YIELD

LOW YIELD



TOPMASTER[®]
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HIGH YIELD
REF: 27M00-02

MEDIUM YIELD
REF: 27M00-03

LOW YIELD
REF: 27M00-04

LOW ENTANGLEMENT
REF: 27LE00-01

HIGH YIELD
REF: 27LE00-02

MEDIUM YIELD
REF: 27LE00-03

CARDMASTER[®]
REF: 2CM00-01

HIGH YIELD
REF: 2CM00-02

MEDIUM YIELD
REF: 2CM00-03

LOW YIELD
REF: 2CM00-04