

CRC

Premium

for

Quality

Wool

Textile Processes & Products

Produced for the CRC for Premium Quality Wool undergraduate program by; Dr. Peter Auer, The University of New South Wales.

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Textile Products

- Primary
 - raw fibre
 - continuous filaments
- Secondary
 - staple fibre
 - scoured wool
 - carbonised wool
 - sliver
 - slubbing
 - top
 - singles yarn

- Final
 - raw wool
 - continuous filament
 - scoured wool
 - top
 - singles yarn
 - plied yarn
 - fabric
 - woven
 - knitted
 - felted (non-woven)
 - garments

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Textile Processes

- Early Stage (ESP)
 - scouring
 - carding
 - gilling
 - combing
 - finisher gilling
- Intermediate Stage (ISP)
 - drawing
 - spinning
 - doubling

- Later Stage (LSP)
 - weaving
 - knitting
 - milling
 - tufting (carpets)
 - dyeing?
 - finishing
 - garment make-up
- Synthetics
 - tow cutting
 - stretch breaking

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Machines & Products: Exercise

BUTE RESUNCT		INPUT	OUTPUT
2.1	Scour		
CRC	Card		
	Gillbox		
for	Comb		
Premium Quality	Finisher gillbox		
	Re-gilling Re-combing		
	Drawing Frame		
Wool	Spinning Frame		
12.11	Doubling Frame		
	Loom		
1200	Knitting Machine		
22	Milling Machine		

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Processes & Products: Exercise

		INPUT	OUTPUT
CRC	Tow Cutting		
for Premium	Stretch Breaking		
Quality	Dyeing		
Wool	Finishing		
	Garment Make-up		

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Machines & Products

	INPUT	OUTPUT
Scour	raw wool	scoured wool treated wool
Card	scoured wool carbonised wool other fibres	wool sliver slubbing
Gillbox	sliver	sliver
Comb	sliver	combed sliver
Finisher gillbox	combed sliver	top
Re-gilling Re-combing	wool top other fibre top	top
Drawing Frame	top	roving
Spinning Frame	roving slubbing combed sliver (not wool)	singles yarn
Doubling Frame	singles yarn	folded yarn plied yarn
Loom	plied yarn singles yarn	woven fabric
Knitting Machine	plied yarn	knitted fabric
Milling Machine	raw wool animal fibre varn	felted products
	Card Gillbox Comb Finisher gillbox Re-gilling Re-combing Drawing Frame Spinning Frame Loom Knitting Machine	Scourraw woolCardScoured wool carbonised wool other fibresGillboxsliverCombsliverFinisher gillboxcombed sliverRe-gilling Re-combingwool top other fibre topDrawing FrametopSpinning Frameslubbing combed sliver (not wool)Doubling Framesingles yarnLoomplied yarn singles yarnKnitting Machineplied yarn raw wool



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Processes & Products

C RESEAR		INPUT	OUTPUT
370	Tow Cutting	continuous filament	staple fibre
CRC	Stretch Breaking	continuous filament	staple fibre
for Premium Quality	Dyeing	fibre top plied yarn fabric garment	dyed products
Wool	Finishing	yarn fabric	finished products
No.	Garment Make-up	finished fabric sewing yarn	garments