

Inventario de Ciclo de Vida de jeans Americanino

Septiembre 2018



INVENTARIOS DE CICLO DE VIDA

Tabla 1- Inventario de ciclo de vida para jeans elaborado mujer 2017 y 2014

FASE 1: PRODUCCIÓN DE TELA DE ALGODÓN				
Unidad Funcional: 1 kg de tela en Chile		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Fibra de algodón (GLO)	Textile, woven cotton {GLO} production Alloc Def, U	1	1	kg
Transporte marítimo	Transport, freight, sea, transoceanic ship {GLO} processing Alloc Def, U	19070	19070	kgkm
Transporte terrestre	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	100	100	kgkm
Output	Proceso Simapro			
Tela de algodón en Chile		1	1	kg
FASE 2: PRODUCCIÓN JEANS ELABORADO MUJER MUD 221 M				
Unidad Funcional: 1 jeans procesado de mujer MUD 221 M		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Tela de algodón	Textile, woven cotton {GLO} production Alloc Def, U	546.0	546.0	gr
Spandex		11.1	11.1	gr
Etiqueta				
Poliéster 65%	Polyester resin, unsaturated {RoW} production Alloc Def, U	2.0	2.0	gr
Algodón 35%	Textile, woven cotton {GLO} production Alloc Def, U	1.1	1.1	gr
Etiqueta Cartón	Carton board box production, with offset printing {RoW} carton board box production service, with offset printing Alloc Def, U	1.9	1.9	gr
Etiqueta Cuero		12.4	12.4	gr
Etiqueta Fasco		1.9	1.9	gr
Botones	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	18.6	18.6	gr
Cierre				
Poliéster 50%	Polyester resin, unsaturated {RoW} production Alloc Def, U	7.7	7.7	gr
Aluminio 50%	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	7.7	7.7	gr
Remaches	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	2.5	2.5	gr
Hilo	Textile, woven cotton {GLO} production Alloc Def, U	6.2	6.2	gr
Dispersante	Fatty alcohol {RoW} production, petrochemical Alloc Def, U	5.0	5.0	gr
Amilasa	Enzymes	2.5	2.5	gr
Enzima neutra	Enzyme, Cellulase, Novozyme Celluclast/kg/RER	2.0	2.0	gr
Cloro	Sodium hypochlorite, without water, in 15% solution state {RoW} sodium hypochlorite production, product in 15% solution state Alloc Def, U	300.0	300.0	gr
Metabisulfito	Sodium sulfite {RoW} production Alloc Def, U	30.0	30.0	gr
Permanganato	Potassium permanganate {RoW} oxidation of manganese dioxide Alloc Def, U	2.0	2.0	gr

Neutralizante		5.0	5.0	gr
Agua oxigenada	Hydrogen peroxide, without water, in 50% solution state {RoW} hydrogen peroxide production, product in 50% solution state Alloc Def, U	10.0	10.0	gr
Soda cáustica	Sodium hydroxide, without water, in 50% solution state {RoW} chlor-alkali electrolysis, mercury cell Alloc Def, U	2.5	2.5	gr
Blanqueador óptico		0.5	0.5	gr
Suavizante		2.5	2.5	gr
Transporte de materias primas	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	21.75	49.05	kgkm
Electricidad Confección	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	1.74	1.74	Kwh
Electricidad Terminación	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.21	0.21	Kwh
Electricidad Lavandería	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.38	0.46	Kwh
Electricidad Láser	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.03	0.03	Kwh
Gas Natural Caldera Lavado	Natural gas, low pressure {RoW} natural gas pressure reduction from high to low pressure Alloc Def, U	0.08	0.10	m3
Gas Natural Caldera Secado	Natural gas, low pressure {RoW} natural gas pressure reduction from high to low pressure Alloc Def, U	0.12	0.10	m3
Agua	Tap water {RoW} tap water production, conventional treatment Alloc Def, U	0.02	0.05	m3
Output	Proceso Simapro			
Jeans terminados		1	1	un
Retazos		18	18	gr
RILES	Wastewater, from residence {RoW} treatment of, capacity 1.1E10/year Alloc Def, U	100	100	m3
Emisiones al agua				
Dispersante	Fatty alcohol ethoxylate	4.5	4.5	gr
Amilasa		2.25	2.25	gr
Enzima neutra		1.8	1.8	gr
Cloro	Sodium hypochlorite	270	270	gr
Metabisulfito	Sodium sulfate	27	27	gr
Permanganato	Potassium compounds, unspecified	1.8	1.8	gr
Neutralizante		4.5	4.5	gr
Agua oxigenada	Hydrogen peroxide	9	9	gr
Soda cáustica	Sodium hydroxide	2.25	2.25	gr
Blanqueador óptico		0.45	0.45	gr

Suavizante		2.25	2.25	gr
FASE 3: EMBALAJE				
Unidad Funcional: 1 jeans, por kilo de producto o por producción en cierto periodo		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Colgador				
Plástico 90%	Polyethylene, high density, granulate {RoW} production Alloc Def, U	90.00	90.00	gr
Metal 10%	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	10.00	10.00	gr
Bolsa Plástico	Polyethylene, low density, granulate {RoW} production Alloc Def, U	1.15	1.15	gr
Papel adhesivo				
Papel	Printed paper, offset {RoW} offset printing, per kg printed paper Alloc Def, U	0.09	0.09	gr
Adhesivo	Adhesive, for metal {RoW} production Alloc Def, U	0.02	0.02	gr
Output	Proceso Simapro			
Jeans empacados		1	1	un
Colgadores que se rompen				
Plástico	Waste polyethylene {RoW} treatment of waste polyethylene, sanitary landfill Alloc Def, U	0.09	0.09	gr
Metal	Waste aluminium {RoW} treatment of, sanitary landfill Alloc Def, U	0.01	0.01	gr
Bolsas que se rompen	Waste polyethylene {RoW} treatment of waste polyethylene, sanitary landfill Alloc Def, U	0.001	0.001	gr
FASE 4: DISTRIBUCIÓN				
Unidad Funcional: 385041 jeans 2017 y 815296 jeans 2014 en tienda		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Proveedor a Centro de Distribución	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	2310243	4891776	kgkm
Centros de distribución al resto de Chile (33m3)	Transport, freight, lorry 3.5-7.5 metric ton, EURO3 {RoW} transport, freight, lorry 3.5-7.5 metric ton, EURO3 Alloc Def, U	218790	166563	kgkm
Centros de distribución al resto de Chile (66m3)	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	5716788	15425730	kgkm
Centros de distribución al resto de Chile (100m3)	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	70946413	80535511	kgkm
Output	Proceso Simapro			
Jeans en tiendas		385041	815296	un
FASE 5: RETAIL Y COMPRAS				

Unidad Funcional: 1 jeans		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Electricidad tienda	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.0001	0.0001	kWh
Transporte al local y regreso (auto)	Transport, passenger car, EURO 3 {RoW} transport, passenger car, EURO 3 Alloc Def, U	1.45	1.45	km
Output	Proceso Simapro			
Jeans consumidor		1	1	un
FASE 6: USO				
Unidad Funcional: lavado de 1 jeans (se multiplica por la cantidad de lavados promedio en un año de uso del jeans)		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Lavado con detergente OMO 2017	De acuerdo a información de empresa Unilever	0.6	0.6	kg
FASE 7: FIN DE VIDA				
Unidad Funcional: 1 jeans a relleno sanitario		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Jeans		1	1	un
Traslado relleno sanitario	Transport, freight, lorry 3.5-7.5 metric ton, EURO3 {RER} transport, freight, lorry 3.5-7.5 metric ton, EURO3 Alloc Def, U	15	15	kgkm
Output	Proceso Simapro			
Relleno sanitario	Inert waste {RoW} treatment of, sanitary landfill Alloc Def, U	0.6	0.6	kg

*En rojo aquellos insumos que no han podido ser modelados por falta de factores de caracterización en bases de datos internacionales

Tabla 2- Inventario de ciclo de vida de jean mujer básico

FASE 1: PRODUCCIÓN DE TELA DE ALGODÓN			
Unidad Funcional: 1 kg de tela en Chile		Cantidad	
Input	Proceso Simapro	2017	Unidad
Fibra de algodón (GLO)	Textile, woven cotton {GLO} production Alloc Def, U	1	kg
Transporte marítimo	Transport, freight, sea, transoceanic ship {GLO} processing Alloc Def, U	19070	kgkm
Transporte terrestre	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	100	kgkm
Output	Proceso Simapro		
Tela de algodón en Chile		1	kg
FASE 2: PRODUCCIÓN JEANS PRODUCCIÓN MUJER BÁSICO MAJ-900 LESS			
Unidad Funcional: 1 jeans de mujer básico		Cantidad	
Input	Proceso Simapro	2017	Unidad
Tela de algodón	Textile, woven cotton {GLO} production Alloc Def, U	394.7	gr
Spandex		13.9	gr
Poliéster	Polyester resin, unsaturated {RoW} production Alloc Def, U	55.7	
Etiqueta			
Poliéster 65%	Polyester resin, unsaturated {RoW} production Alloc Def, U	1.7	gr

Algodón 35%	Textile, woven cotton {GLO} production Alloc Def, U	0.9	gr
Etiqueta Cartón	Carton board box production, with offset printing {RoW} carton board box production service, with offset printing Alloc Def, U	1.5	gr
Etiqueta Cuero		10.3	gr
Etiqueta Fasco		1.5	gr
Botones	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	15.5	gr
Cierre			
Poliéster 50%	Polyester resin, unsaturated {RoW} production Alloc Def, U	6.5	gr
Aluminio 50%	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	6.5	gr
Remaches	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	2.1	gr
Hilo	Textile, woven cotton {GLO} production Alloc Def, U	5.2	gr
Suavizante		2.5	gr
Silicona	Silicone product {RoW} production Alloc Def, U	1.3	gr
Transporte de materias primas	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	6.3	kgkm
Electricidad Confección	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.23	Kwh
Electricidad Terminación	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.10	Kwh
Electricidad Lavandería	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.28	Kwh
Gas Natural Caldera Lavado	Natural gas, low pressure {RoW} natural gas pressure reduction from high to low pressure Alloc Def, U	0.06	m3
Gas Natural Caldera Secado	Natural gas, low pressure {RoW} natural gas pressure reduction from high to low pressure Alloc Def, U	0.09	m3
Agua	Tap water {RoW} tap water production, conventional treatment Alloc Def, U	0.01	m3
Output	Proceso Simapro		
Jeans terminados		1	un
Retazos		15	gr
RILES	Wastewater, from residence {RoW} treatment of, capacity 1.1E10/year Alloc Def, U	0.0	m3
Emisiones al agua			
Suavizante		2.25	gr
Silicona	Fatty acids as C	1.125	gr

FASE 3: EMBALAJE			
Unidad Funcional: 1 jeans, por kilo de producto o por producción en cierto periodo		Cantidad	
Input	Proceso Simapro	2017	Unidad
Caja de cartón	Corrugated board box {RoW} production Alloc Def, U	26.5	gr
Bolsa Plástico	Polyethylene, low density, granulate {RoW} production Alloc Def, U		gr
Papel adhesivo		0.05	
Papel	Printed paper, offset {RoW} offset printing, per kg printed paper Alloc Def, U	0.04	gr
Adhesivo	Adhesive, for metal {RoW} production Alloc Def, U	0.01	gr
Cinta adhesiva	Sealing tape, aluminium/PE, 50 mm wide {RoW} production Alloc Def, U	1.25	gr
Bolsa de jeans	<i>Elaboración jeans mujer básico</i>	0.07	gr
Output	Proceso Simapro		
Jeans empacados		1	un
Cinta adhesiva	Waste polyethylene {RoW} treatment of waste polyethylene, sanitary landfill Alloc Def, U	0.00625	gr
Bolsas que se rompen	Waste polyethylene {RoW} treatment of waste polyethylene, sanitary landfill Alloc Def, U	0.004	gr
Cajas de cartón	Waste paperboard {RoW} treatment of, sanitary landfill Alloc Def, U	0.133	gr
FASE 4: DISTRIBUCIÓN			
Unidad Funcional: 128347 en tienda		Cantidad	
Input	Proceso Simapro	2017	Unidad
Proveedor a Centro de Distribución	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	641734.1667	kgkm
Centros de distribución al resto de Chile (33m3)	Transport, freight, lorry 3.5-7.5 metric ton, EURO3 {RoW} transport, freight, lorry 3.5-7.5 metric ton, EURO3 Alloc Def, U	60775	kgkm
Centros de distribución al resto de Chile (66m3)	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	1587997	kgkm
Centros de distribución al resto de Chile (100m3)	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	19707337	kgkm
Output	Proceso Simapro		
Jeans en tiendas		128347	un
FASE 5: RETAIL Y COMPRAS			
Unidad Funcional: 1 jeans		Cantidad	
Input	Proceso Simapro	2017	Unidad
Electricidad tienda	Electricity, low voltage {Cl} electricity voltage transformation from medium to low voltage Alloc Def, U	0.0000	kWh
Transporte al local y regreso (auto)	Transport, passenger car, EURO 3 {RoW} transport, passenger car, EURO 3 Alloc Def, U	1.45	km

Output	Proceso Simapro		
Jeans consumidor		1	un
FASE 6: USO			
Unidad Funcional: lavado de 1 jeans (se multiplica por la cantidad de lavados promedio en un año de uso del jeans)		Cantidad	
Input	Proceso Simapro	2017	Unidad
Lavado con detergente OMO 2017	De acuerdo a información de empresa Unilever	0.5	kg
FASE 7: FIN DE VIDA			
Unidad Funcional: 1 jeans a relleno sanitario		Cantidad	
Input	Proceso Simapro	2017	Unidad
Jeans		1	un
Traslado relleno sanitario	Transport, freight, lorry 3.5-7.5 metric ton, EURO3 {RER} transport, freight, lorry 3.5-7.5 metric ton, EURO3 Alloc Def, U	12.5	kgkm
Output	Proceso Simapro		
Relleno sanitario	Inert waste {RoW} treatment of, sanitary landfill Alloc Def, U	0.5	kg

*En rojo aquellos insumos que no han podido ser modelados por falta de factores de caracterización en bases de datos internacionales

Tabla 3- Inventario de ciclo de vida para jeans elaborado hombre 2017 y 2014

FASE 1: PRODUCCIÓN DE TELA DE ALGODÓN				
Unidad Funcional: 1 kg de tela en Chile		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Fibra de algodón (GLO)	Textile, woven cotton {GLO} production Alloc Def, U	1	1	kg
Transporte marítimo	Transport, freight, sea, transoceanic ship {GLO} processing Alloc Def, U	19070	19070	kgkm
Transporte terrestre	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	100	100	kgkm
Output	Proceso Simapro			
Tela de algodón en Chile		1	1	kg
FASE 2: PRODUCCIÓN JEANS ELABORADO HOMBRE --> JDSL COMFORT 15				
Unidad Funcional: 1 jeans procesado de hombre		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Tela de algodón	Textile, woven cotton {GLO} production Alloc Def, U	681.8	681.8	gr
Spandex		13.9	13.9	gr
Etiqueta				
Poliéster 65%	Polyester resin, unsaturated {RoW} production Alloc Def, U	2.5	2.5	gr
Algodón 35%	Textile, woven cotton {GLO} production Alloc Def, U	2.4	2.4	gr
Etiqueta Cartón	Carton board box production, with offset printing {RoW} carton board box production service, with offset printing Alloc Def, U	2.3	2.3	gr
Etiqueta Cuero		15.5	15.5	gr
Etiqueta Fasco		2.3	2.3	gr
Botones	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	23.2	23.2	gr
Cierre				
Poliéster 50%	Polyester resin, unsaturated {RoW} production Alloc Def, U	9.7	9.7	gr
Aluminio 50%	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	9.7	9.7	gr
Remaches	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	3.1	3.1	gr
Hilo	Textile, woven cotton {GLO} production Alloc Def, U	7.7	7.7	gr
Dispersante	Fatty alcohol {RoW} production, petrochemical Alloc Def, U	5.0	5.0	gr
Amilasa	Enzymes	2.5	2.5	gr
Enzima neutra	Enzyme, Cellulase, Novozyme Celluclast/kg/RER	2.0	2.0	gr
Cloro	Sodium hypochlorite, without water, in 15% solution state {RoW} sodium hypochlorite production, product in 15% solution state Alloc Def, U	150.0	150.0	gr
Metabisulfito	Sodium sulfite {RoW} production Alloc Def, U	15.0	15.0	gr
Permanganato	Potassium permanganate {RoW} oxidation of manganese dioxide Alloc Def, U	2.0	2.0	gr
Neutralizante		5.0	5.0	gr

Agua oxigenada	Hydrogen peroxide, without water, in 50% solution state {RoW} hydrogen peroxide production, product in 50% solution state Alloc Def, U	10.0	10.0	gr
Soda cáustica	Sodium hydroxide, without water, in 50% solution state {RoW} chlor-alkali electrolysis, mercury cell Alloc Def, U	2.5	2.5	gr
Blanqueador óptico		0.5	0.5	gr
Suavizante		2.5	2.5	gr
Transporte de materias primas	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	13.8	13.8	kgkm
Electricidad Confección	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	1.74	1.74	Kwh
Electricidad Terminación	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.21	0.21	Kwh
Electricidad Lavandería	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.38	0.46	Kwh
Electricidad Láser	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.03	0.03	Kwh
Gas Natural Caldera Lavado	Natural gas, low pressure {RoW} natural gas pressure reduction from high to low pressure Alloc Def, U	0.08	0.10	m3
Gas Natural Caldera Secado	Natural gas, low pressure {RoW} natural gas pressure reduction from high to low pressure Alloc Def, U	0.12	0.10	m3
Agua	Tap water {RoW} tap water production, conventional treatment Alloc Def, U	0.02	0.05	m3
Output	Proceso Simapro			
Jeans terminados		1	1	un
Retazos		22.5	22.5	gr
RILES	Wastewater, from residence {RoW} treatment of, capacity 1.1E10/year Alloc Def, U	0.1	0.3	m3
Emisiones al agua				
Dispersante	Fatty alcohol ethoxylate	4.5	4.5	gr
Amilasa		2.25	2.25	gr
Enzima neutra		1.8	1.8	gr
Cloro	Sodium hypochlorite	135	135	gr
Metabisulfito	Sodium sulfate	13.5	13.5	gr
Permanganato	Potassium compounds, unspecified	1.8	1.8	gr
Neutralizante		4.5	4.5	gr
Agua oxigenada	Hydrogen peroxide	9	9	gr
Soda cáustica	Sodium hydroxide	2.25	2.25	gr
Blanqueador óptico		0.45	0.45	gr
Suavizante		2.25	2.25	gr

FASE 3: EMBALAJE				
Unidad Funcional: 1 jeans, por kilo de producto o por producción en cierto periodo		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Caja de cartón	Corrugated board box {RoW} production Alloc Def, U	26.5	26.5	gr
Bolsa Plástico	Polyethylene, low density, granulate {RoW} production Alloc Def, U	3.8	3.8	gr
Papel adhesivo				
Papel	Printed paper, offset {RoW} offset printing, per kg printed paper Alloc Def, U	0.04	0.04	gr
Adhesivo	Adhesive, for metal {RoW} production Alloc Def, U	0.01	0.01	gr
Cinta adhesiva	Sealing tape, aluminium/PE, 50 mm wide {RoW} production Alloc Def, U	1.25	1.25	gr
Output	Proceso Simapro			
Jeans empacados		1	1	un
Cinta adhesiva	Waste polyethylene {RoW} treatment of waste polyethylene, sanitary landfill Alloc Def, U	0.00625	0.00625	gr
Bolsas que se rompen	Waste polyethylene {RoW} treatment of waste polyethylene, sanitary landfill Alloc Def, U	0.004	0.004	gr
Cajas de cartón	Waste paperboard {RoW} treatment of, sanitary landfill Alloc Def, U	0.133	0.133	gr
FASE 4: DISTRIBUCIÓN				
Unidad Funcional: 1796856 jeans 2017 y 380471 jeans 2014 en tienda		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Proveedor a Centro de Distribución	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	1347642	2853536	kgkm
Centros de distribución al resto de Chile (33m3)	Transport, freight, lorry 3.5-7.5 metric ton, EURO3 {RoW} transport, freight, lorry 3.5-7.5 metric ton, EURO3 Alloc Def, U	127627.5	97161.75	kgkm
Centros de distribución al resto de Chile (66m3)	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	3334793	8998342	kgkm
Centros de distribución al resto de Chile (100m3)	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	41385407	46979048	kgkm
Output	Proceso Simapro			
Jeans en tiendas		179686	380471.5	un
FASE 5: RETAIL Y COMPRAS				
Unidad Funcional: 1 jeans		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Electricidad tienda	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.0001	0.0001	kWh

Transporte al local y regreso (auto)	Transport, passenger car, EURO 3 {RoW} transport, passenger car, EURO 3 Alloc Def, U	1.45	1.45	km
Output	Proceso Simapro			
Jeans consumidor		1	1	un
FASE 6: USO				
Unidad Funcional: lavado de 1 jeans (se multiplica por la cantidad de lavados promedio en un año de uso del jeans)		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Lavado con detergente OMO 2017	De acuerdo a información de empresa Unilever	0.75	0.75	kg
FASE 7: FIN DE VIDA				
Unidad Funcional: 1 jeans a relleno sanitario		Cantidad		
Input	Proceso Simapro	2017	2014	Unidad
Jeans		1	1	un
Traslado relleno sanitario	Transport, freight, lorry 3.5-7.5 metric ton, EURO3 {RER} transport, freight, lorry 3.5-7.5 metric ton, EURO3 Alloc Def, U	18.75	18.75	kgkm
Output	Proceso Simapro			
Relleno sanitario	Inert waste {RoW} treatment of, sanitary landfill Alloc Def, U	0.75	0.75	kg

*En rojo aquellos insumos que no han podido ser modelados por falta de factores de caracterización en bases de datos internacionales

Tabla 4- Inventario de ciclo de vida para jeans hombre básico 2017

FASE 1: PRODUCCIÓN DE TELA DE ALGODÓN				
Unidad Funcional: 1 kg de tela en Chile		Cantidad		
Input	Proceso Simapro	2017	Unidad	
Fibra de algodón (GLO)	Textile, woven cotton {GLO} production Alloc Def, U	1	kg	
Transporte marítimo	Transport, freight, sea, transoceanic ship {GLO} processing Alloc Def, U	19070	kgkm	
Transporte terrestre	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	100	kgkm	
Output	Proceso Simapro			
Tela de algodón en Chile		1	kg	
FASE 2: PRODUCCIÓN JEANS HOMBRE BÁSICO MAH-901 LESS				
Unidad Funcional: 1 jeans básico de hombre		Cantidad		
Input	Proceso Simapro	2017	Unidad	
Tela de algodón	Textile, woven cotton {GLO} production Alloc Def, U	552.3	gr	
Spandex		19.5	gr	
Poliéster	Polyester resin, unsaturated {RoW} production Alloc Def, U	78.0		
Etiqueta				
Poliéster 65%	Polyester resin, unsaturated {RoW} production Alloc Def, U	2.3	gr	
Algodón 35%	Textile, woven cotton {GLO} production Alloc Def, U	1.3	gr	
Etiqueta Cartón	Carton board box production, with offset printing {RoW} carton board box production service, with offset printing Alloc Def, U	2.2	gr	

Etiqueta Cuero		14.4	gr
Etiqueta Fasco		2.2	gr
Botones	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	21.7	gr
Cierre			
Poliester 50%	Polyester resin, unsaturated {RoW} production Alloc Def, U	9.0	gr
Aluminio 50%	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	9.0	gr
Remaches	Aluminium, wrought alloy {RoW} treatment of aluminium scrap, new, at remelter Alloc Def, U	2.9	gr
Hilo	Textile, woven cotton {GLO} production Alloc Def, U	7.2	gr
Suavizante		2.5	gr
Silicona	Silicone product {RoW} production Alloc Def, U	1.3	gr
Transporte de materias primas	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	8.7	kgkm
Electricidad Confección	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.7	Kwh
Electricidad Terminación	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.2	Kwh
Electricidad Lavandería	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.3	Kwh
Gas Natural Caldera Lavado	Natural gas, low pressure {RoW} natural gas pressure reduction from high to low pressure Alloc Def, U	0.1	m3
Gas Natural Caldera Secado	Natural gas, low pressure {RoW} natural gas pressure reduction from high to low pressure Alloc Def, U	0.1	m3
Agua	Tap water {RoW} tap water production, conventional treatment Alloc Def, U	0.0	m3
Output	Proceso Simapro		
Jeans terminados		1	un
Retazos		21	gr
RILES	Wastewater, from residence {RoW} treatment of, capacity 1.1E10/year Alloc Def, U	0.0	m3
Emisiones al agua			
Suavizante		2.25	gr
Silicona	Fatty acids as C	1.125	gr
FASE 3: EMBALAJE			
Unidad Funcional: 1 jeans, por kilo de producto o por producción en cierto periodo		Cantidad	
Input	Proceso Simapro	2017	Unidad

Caja de cartón	Corrugated board box {RoW} production Alloc Def, U	26.5	gr
Bolsa Plástico	Polyethylene, low density, granulate {RoW} production Alloc Def, U	3.8	gr
Papel adhesivo			
Papel	Printed paper, offset {RoW} offset printing, per kg printed paper Alloc Def, U	0.04	gr
Adhesivo	Adhesive, for metal {RoW} production Alloc Def, U	0.01	gr
Cinta adhesiva	Sealing tape, aluminium/PE, 50 mm wide {RoW} production Alloc Def, U	1.25	gr
Bolsa de jeans	<i>Elaboración jeans mujer básico</i>	0.01	gr
Output	Proceso Simapro		
Jeans empacados		1	un
Cinta adhesiva	Waste polyethylene {RoW} treatment of waste polyethylene, sanitary landfill Alloc Def, U	0.00625	gr
Bolsas que se rompen	Waste polyethylene {RoW} treatment of waste polyethylene, sanitary landfill Alloc Def, U	0.004	gr
Cajas de cartón	Waste paperboard {RoW} treatment of, sanitary landfill Alloc Def, U	0.133	gr
FASE 4: DISTRIBUCIÓN			
Unidad Funcional: 77008 en tienda		Cantidad	
Input	Proceso Simapro	2017	Unidad
Proveedor a Centro de Distribución	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	539056.7	kgkm
Centros de distribución al resto de Chile (33m3)	Transport, freight, lorry 3.5-7.5 metric ton, EURO3 {RoW} transport, freight, lorry 3.5-7.5 metric ton, EURO3 Alloc Def, U	51051	kgkm
Centros de distribución al resto de Chile (66m3)	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	1333917	kgkm
Centros de distribución al resto de Chile (100m3)	Transport, freight, lorry 16-32 metric ton, EURO3 {RoW} transport, freight, lorry 16-32 metric ton, EURO3 Alloc Def, U	16554163	kgkm
Output	Proceso Simapro		
Jeans en tiendas		77008	un
FASE 5: RETAIL Y COMPRAS			
Unidad Funcional: 1 jeans		Cantidad	
Input	Proceso Simapro	2017	Unidad
Electricidad tienda	Electricity, low voltage {CL} electricity voltage transformation from medium to low voltage Alloc Def, U	0.0000	kWh
Transporte al local y regreso (auto)	Transport, passenger car, EURO 3 {RoW} transport, passenger car, EURO 3 Alloc Def, U	1.45	km
Output	Proceso Simapro		
Jeans consumidor		1	un
FASE 6: USO			

Unidad Funcional: lavado de 1 jeans (se multiplica por la cantidad de lavados promedio en un año de uso del jeans)		Cantidad	
Input	Proceso Simapro	2017	Unidad
Lavado con detergente OMO 2017	De acuerdo a información de empresa Unilever	0.7	kg
FASE 7: FIN DE VIDA			
Unidad Funcional: 1 jeans a relleno sanitario		Cantidad	
Input	Proceso Simapro	2017	Unidad
Jeans		1	un
Traslado relleno sanitario	Transport, freight, lorry 3.5-7.5 metric ton, EURO3 {RER} transport, freight, lorry 3.5-7.5 metric ton, EURO3 Alloc Def, U	17.5	kgkm
Output	Proceso Simapro		
Relleno sanitario	Inert waste {RoW} treatment of, sanitary landfill Alloc Def, U	0.7	kg

*En rojo aquellos insumos que no han podido ser modelados por falta de factores de caracterización en bases de datos internacionales