## **Testing Results**

for

# Entre Hilos & Algodón Management Software

Version 3.3.0 approved

Prepared by Gaman GeekLords

Universidad de las Fuerzas Armadas ESPE

27/02/22

### Tests for computeMaterialUnitCost method

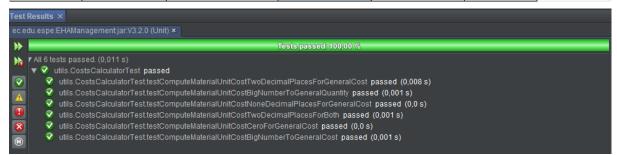
#### **Before tests**

		Unit Test compute	eMaterialUnitCost		
Test case	General Cost	GeneralQuantity	Expected Result	Actual Result	Status
1	5,00	10	0,50	0,50	OK
2	2,50	2	1,25	1,25	OK
3	-8,41	-5	Not possible to enter	Not possible to enter	OK
4	2,666666	2,4	Not possible to enter	Not possible to enter	OK
5	2	8	0,25	0,25	OK
6	a	10	Not possible to enter	Not possible to enter	OK
7	5	5	1,00	1,0	OK
8	5,222	-9	Not possible to enter	Not possible to enter	OK
9	2222222,2	7500	296,30	296,2963	FAIL
10	4	10000	0,00	0,0004	FAIL
11	5	8	0,63	0,625	FAIL
12	6,5	7,4	Not possible to enter	Not possible to enter	OK
13	10	5	2,00	2	OK
14	5,8	3	1,93	1,9333334	FAIL
15	4,5,	2	Not possible to enter	Exception	FAIL
16	2	-8	Not possible to enter	Not possible to enter	OK
17	4	k	Not possible to enter	Not possible to enter	ОК
18	0	7	0,00	0	OK
19	555,5	6,6666666	Not possible to enter	Not possible to enter	OK
20	2,55555555	20	Not possible to enter	0,125	FAIL
21	2222222222	300000000	74,07	0,74	OK
22	0	0	Not possible to enter	Not possible to enter	OK
23	55555555	10	5,56E+07	5,56E+07	FAIL
24	23,56	0	Not possible to enter	Not possible to enter	OK
25	22	0	Not possible to enter	Not possible to enter	OK



After tests

		Unit Test compute	eMaterialUnitCost			
Test case	General Cost	GeneralQuantity	Expected Result	Actual Result	Status	
1	5,00	10	0,50	0,50	OK	
2	2,50	2	1,25	1,25	OK	
3	-8,41	-5	Not possible to enter	Not possible to enter	OK	
4	2,666666	2,4	Not possible to enter	Not possible to enter	OK	
5	2	8	0,25	0,25	OK	
6	a	10	Not possible to enter	Not possible to enter	OK	
7	5	5	1,00	1,0	OK	
8	5,222	-9	Not possible to enter	Not possible to enter	OK	
9	2222222,2	7500	296,30	296,30	OK	
10	4	10000	0,00	0,00	OK	
11	5	8	0,63	0,63	OK	
12	6,5	7,4	Not possible to enter	Not possible to enter	OK	
13	10	5	2,00	2,00	OK	
14	5,83	3	1,94	1,94	OK	
15	4,5,	2	Not possible to enter	Exception	In work	Validation issues
16	2	-8	Not possible to enter	Not possible to enter	OK	
17	4	k	Not possible to enter	Not possible to enter	OK	
18	0	7	0,00	0,00	OK	
19	555,5	6,6666666	Not possible to enter	Not possible to enter	OK	
20	2,5555555	20	Not possible to enter	0,13	In work	Validation issues
21	222222222	3000001	74,07	0,74	OK	
22	0	0	Not possible to enter	Not possible to enter	OK	
23	55555555	10	5,56E+07	5,56E+07	OK	
24	23,56	0	Not possible to enter	Not possible to enter	OK	
25	22	0	Not possible to enter	Not possible to enter	OK	



## $Tests\ for\ compute Working Time Cost Per Product\ method$

**Before tests** 

		Unit Test comp	outeWorkingTimeCostPer	Product	
Test case	Working Time	Current Salary	Expected Result	Actual Result	Status
1	5	400,00	8,33	8,333333	Fail
2	10	450,63	18,78	18,76249	Fail
3	8	987,1	32,90	32,9	Ok
4	0	123,32	0,00	0	Ok
5	1	12,66	0,05	0,052775003	Fail
6	12	98765,22	4938,26	4938,26	Ok
7	100	24	10,00	10	Ok
8	2	666321,03	5552,68	5,552,675	Fail
9	3	2352,62	29,41	29.407.825	Fail
10	4	123,32	2,06	2,06	Ok
11	1	22,33	0,09	0,09	Ok
12	2,1,,	951,15,9	Not possible to enter	exception	Fail
13	24	62,33333	Not possible to enter	6,244	Fail
14	19	123,21	9,75	9,75	Ok
15	15	598,36	37,40	37,4	Ok
16	-1	-8999	Not possible to enter	Not possible to enter	Ok
17	2,1	-2	Not possible to enter	Not possible to enter	Ok
18	-9,1	-2,3	Not possible to enter	Not possible to enter	Ok
19	9	98,1	3,68	3,69	Fail
20	9	999,1	37,47	37,47	Ok
21	98	879654,321	Not possible to enter	359192,2	Fail
22	1,2	98,00009	Not possible to enter	Not possible to enter	Ok
23	5	126,32	2,63	2,63	Ok
24	9	174,98	6,56	6,56205	Fail
25	15	12,12	0,76	0,76	Ok



#### After tests

		Unit Test comp	outeWorkingTimeCostPeri	Product	
Test case	Working Time	Current Salary	Expected Result	Actual Result	Status
1	5	400,00	8,33	8,33	Ok
2	10	450,63	18,78	18,76	Ok
3	8	987,1	32,90	32,9	Ok
4	0	123,32	0,00	0	Ok
5	1	12,68	0,05	0,05	Ok
6	12	98765,22	4938,26	4938,26	Ok
7	100	24	10,00	10	Ok
8	2	666321,03	5552,68	5,552,68	Ok
9	3	2352,62	29,41	29,41	Ok
10	4	123,32	2,06	2,06	Ok
11	1	22,33	0,09	0,09	Ok
12	2,1,,	951,15,9	Not possible to enter	exception	In work
13	24	62,33333	Not possible to enter	6,244	In work
14	19	123,21	9,75	9,75	Ok
15	15	598,36	37,40	37,4	Ok
16	-1	-8999	Not possible to enter	Not possible to enter	Ok
17	2,1	-2	Not possible to enter	Not possible to enter	Ok
18	-9,1	-2,3	Not possible to enter	Not possible to enter	Ok
19	9	98,1	3,68	3,68	Ok
20	9	999,1	37,47	37,47	Ok
21	98	879654,321	Not possible to enter	359192,2	In work
22	1,2	98,00009	Not possible to enter	Not possible to enter	Ok
23	5	126,32	2,63	2,63	Ok
24	9	174,98	6,56	6,56	Ok
25	15	12,12	0,76	0,76	Ok



### $Tests\ for\ compute Materials Cost Per Product\ method$

#### **Before tests**

4						
4	Before lest		Unit Test manual	niinininii Caniinii A	-	
1	Test sasa	Material and sest	material quantity	Expended Renall	Ashail Hessali	Siatus
1		0,80	3,1			
		1,00	1	1.10	8,82	OK
_		1,43	3,1	1,14	8,82	-
J		1,80	-			
4		1 2	1			
-	2	3	3	21		OK
-		1	1	<b>l</b>	31	
1		3.00	-			
1		1.2	3			
1	3	0.3	3	Not possible to entire	Nat perside to enter	OK
1		4.2	1	1		
			2			
	4	0.3	3	Not possible to enter	Nat provide to reter	OK
4		1	1			
4		0.3	4			
-		1,32	3			
1		2,32	3	14,34	14,34	OK
1		4	-	1		
1		1,0321	2			
1		0.32		Not possible to enter	Nat provide to order	OK
1						
J		2,1313	2,588			
	7	0,38	4.83	21,38	21,374847	FALL.
J		1,734	1,0004			
Į		2	6,5			
J		1,12	2			
ŀ		3,3,3001	1	Not possible to entire	Nat penaltie to enter	OK
ŀ		3.31	1			
ł		0	1			
١		0,32	3			
1		1,1321	1	Not possible to entire	Nat provide to order	OK
1		0,43	1			
J		0,32	4			
1	10	2	0,3	Not possible to retire	4,077888	FAL.
1		1,2	1			
Į		0,3301	1,113771111			
J		12	0,3			
ŀ	11	0,2	1.3	0,0	0,5	OK
ł		200.11	1,3			
ı		80.1	2			
1	12	212,11	0,05	873,44	873,4388	FALL
7		40,21	12			
1		- 4				
1	13	4,12	21,1111	Not possible to retire	Not persolde to enter	OK
-		2	1			
		2	1			
ŀ		2	1			
1	14	12	7	Not possible to entire	Not provide to enter	OK
١		0	12,2121			
ı		21	0.02			
ı		1	0.3			
J	10	3,21	9,76	663375,78	683279,8	FALL
1		601212,11	0,73			
			1			
Į	18	1	1	Not possible to enter	National de la enter	OK
J		0,32	2			
J		2,3	21,30303			
ŀ		31,01	21,32323			
١	17	12	0,21	Not prescrible to retire	Not provide to enter	OK
ı		1	0.1			
J		1,62	0,83			
J	18	1	3	Med married to the con-	Nat persolds to enter	OK
1		<	1	Not possible to enter	The personal to produce	
J		1	42			
Į		2,1	,1,			
Į	18	1,2	1	Not possible to entire	Nat provide to order	OK
J		2	1			
ł		0,31	0,1			
J		312	0,13			
ı	20	3030303.3	0.12	1333388,77	1232338,6	FALL
ı		0,31	0.03			
ı		1	1			
J	21	2	0,21	Not possible to enter	Not preside to enter	OK
1		0,63	1			
1		1	1			
Į	30	1	1	3	3	OK
J		1	1			
Į		1,31	1			
	20	1	1	Not possible to enter	Not provide to enter	OK
Į		2				
		213.1	0.21			
		2.63.7		Not possible to enter	Not provide to reter	OK
	***	2438		THE RESERVE AND PERSONS NAMED IN	THE RESERVE AND POST OF	10000
	34	3433	1			
	34	3438 2 A				
		2	1			
	26	3 A	1 2	Not possible to setter	Nat passible to enter	OK.
		2 A 1323,12	1 2 june			



#### After tests

			interioris Casifor Pro		
Test saste	Material unit cost 0.50	material quantity 3.1	Saymond Konali	Ashud Hennii	Blahas
	1.00	2/1	<b>{</b>		
1	1,42	3.3	1,12	8,82	OK
	1.80	1	1		
	1	1			
	2				
3	3	3	21	31	OK
	1	1	1		
	3.00	*			
_	1.2	3			
3	0.3	3	Not povolide to retire	Nat provide to enter	OK
	4,3	1			
	3	2			
4	0.3	2	Not consider to com-	Not provide to enter	OK
	1	1	Not provide to recen	Not percent to enter	COR.
	0.3	4			
	1,32	2			
	0,74	1	14.34	14.34	OK
_	2,32	3		10,000	
	4	1			
	1,0301	3			
	0,33		Not possible to retire	National Alle to enter	OK
	3	4			
	2,1313	2,588			
7	0,28	4.83	21.38	21.38	OK
,	1,784	1,0004	21,88	21,18	COK.
	2	6,3			
	1,12	2			
	3,3,2001	1	Not possible to retire	Not provide to enter	OK
_	3.21	1			
	1	1			
	0	1			
	0,32	3	Not provide to ser	Not provide to order	OK
_	1,1321	1			
	0,68	1			
	0,32	6			
10	2	0,3	Not possible to enter	4,077888	Inwest
	1,2	1			
	0,3321	3,1139311111			
	12	0,3			
111	0,2	10	8,8	9,5	OK.
	3	1,3			
	300,11	1			
12	90,1	2	873,44	873,64	OK
	212,11	0,03			
	40,21	12			
	- 1				
13	4,12	21,1111	Not possible to entire	Nat passible to enter	OK
	2	-			
	2	1			
	12	-	1		
14	1	- 1	Not possible to retire	Not preside to reter	OK
	0	12,2121			
	21	0.02			
	1	0.2	1		
10	3.21	0.76	663275,78	663278,8	In work
	901010.11	0.73	1		
		1			
				1	
16		1	No.	No.	
L	0,32	1 2	Not possible to enter	Nat percebbe to enter	OK
	0,32		Not provide to enter	Nat provide to reter	OK.
		2	Not possible to enter	Nat paradide to enter	OK.
	2,3	1	Not possible to retire	Nat provide to reder	OK
17	2,3 21,01 12	2 1 21,30323 0 0,21	Not provide to retire	Nat paradile in order  Nat paradile in order	OK OK
17	2,3 21,01 13 12	3 1 31,30303 0	Not provide to retire  Not provide to retire	Nat gerstilde in reder	OK OK
17	2,3 21,01 12 12 1 1,42	3 1 31,33333 0 6,31 0,1 0,83	Not provide to retire	Nat persable to enter	OK OK
	2,3 21,01 13 12	3 1 31,30333 0 0,21 0,1 0,83			
17	2.3 21,01 12 12 1 1,62 1	3 1 31,30303 8 8,21 0,1 0,83 3		Nail paradille la soler Nail paradille la soler Nail paradille la soler	OK OK
	2,3 31,01 12 12 1 1,62 1 1,62	3 1 31,33333 6 6,31 6,1 6,83 2 1			
	2,3 21,01 12 12 1 1,82 1 1 4	2 1 21,33333 0 6,21 0,1 0,83 2 1 1			
	2,5 21,61 12 12 1 1,62 1 1 4 4 1 2,1	2 1 21,33333 8 0,21 0,1 0,83 2 1 1 4,0 1,1		Nat pessible in reter	
11	2.3 21.01 12 12 1 1.82 1 1 4 1 2.1 1.3 2	2 1 21,32323 0 0,21 0,1 0,10 2 1 1 0,0 1 1 1 1	Not possible to evire		OK
11	2.3 21.01 12 12 1 1,82 1 1 4 1 2.1 1,32 2 1 2.1 1,32 2 0.21	2 1 21,32323 5,21 6,1 6,83 2 1 4,0 7,1,1 1	Not possible to evire	Nat pessible in reter	OK
11	2.8 20.01 12 12 1 1 1,62 1 1 1 1 2,1 1,2 2,1 1,2 2,1 1,2 2,1 1,2 2,1 1,2 2,1 1,2 1,2	2 1 1 21.33333 8 8 0.21 0.1 0.83 2 1 1 0.83 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Not possible to evire	Nat pessible in reter	OK
11	2.8 20.01 12 12 1 1 1,82 1 1 2,1 2,1 2,1 2,1 2,1 2,1 3,2 2 0,27 1,111111,1,2	2 1 133333 8 8.31 6.1 8.83 2 1 1 43 43 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Not possible to evire	Nat pessible in reter	OK
18	2.3 21.01 12 12 1.02 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	2 1 21,30302 0,21 0,11 0,83 2 1 1 1 1 1 1 1 1 1 0,12 0,13	Ned possible to entire Ned possible to entire	Nat provide to reter	OK OK
18	2.8 28.01 12 12 1 1.62 1 1.62 1 1 2.1 1.3 2 2.1 1.3 2 2.1 1.3 2 2.1 1.3 2 3 2.1 1.3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 1 1 21 23 23 23 2 2 2 2 2 2 2 2 2 2 2 2	Ned possible to entire Ned possible to entire	Nat provide to reter	OK OK
18	2.8 21.01 12 12 1 1 1.82 1 1 2.1 2.1 2.1 2.2 2 0.21 111111.1	2 1 133333 8 8.31 6.1 8.83 2 1 1 43 43 44 1 1 1 1 6.1 6.1 6.1 6.83	Ned possible to entire Ned possible to entire 1233388,77	Not preside to reter Not preside to reter 133338,8	OK OK
18	2.3 23.01 12 12 1.1 1.1,10 1 1 2.1 1.2 2.1 2.1 2.1 2.1 2.1 2.1 2.1	2 1 21,30302 8,21 6,11 6,82 7 1 1 1 1 1 1 1 1 6,12 1 1 1 6,13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ned possible to entire Ned possible to entire	Nat provide to reter	OK OK
18	2.8 28.01 12 12 1.6 1.62 1.62 1.62 1.62 1.62 1.6	2 1 21,30303 0,21 0,1 0,83 2 1 1 1 1 1 1 1 1 0,12 0,13 0,13 1 1 1 0,13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ned possible to entire Ned possible to entire 1233388,77	Not preside to reter Not preside to reter 133338,8	OK OK
18 18 20 21	2.8 21.01 12 12 1 1 1.02 1 1 2.1 1.2 2.1 1.2 2.1 2.1 2.1 2.1 2.	2 1 21,39393 8 8,31 6,1 6,1 1 1 1 1 1 1 1 1 6,1 6,1 6,1 6,	Ned possible to entire Ned possible to entire 1232388,77 Ned possible to entire	Not preside to reter  Not preside to reter  1232288,8  Not preside to reter	OK OK
18	2.3 21.01 12 12 1.02 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	2 1 21,30303 8,21 8,21 1 1,22 1,1,1 1 1,0,1 6,13 6,13 6,13 6,13 6,13 6,13 6,13 6,	Ned possible to entire Ned possible to entire 1233388,77	Not preside to reter Not preside to reter 133338,8	OK OK
18 18 20 21	2.8 20.01 12 12 1.8 1.82 1.82 1.82 1.9 2.1 1.9 2.1 2.1 2.1 2.1 2.2 2.3 1111111,1 212 202020,2 0.31 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	2 1 21,30303 0,21 0,1 0,83 2 1 1 10,1 1 1 1 1,1,1 1 1 1,1,1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ned possible to entire Ned possible to entire 1232388,77 Ned possible to entire	Not preside to reter  Not preside to reter  1232288,8  Not preside to reter	OK OK
18 18 20 21	2.8 21.01 12 1 1 1.02 1 1.03 1 2.1 1.3 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	2 1 1 21.32323 8 8.21 6.1 6.83 2 1 1 42 4.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ned possible to entire Ned possible to entire 1232388,77 Ned possible to entire	Not preside to reter  Not preside to reter  1232288,8  Not preside to reter	OK OK
18 18 20 21	2.8 21.01 12 12 1 1 1.02 1 1 2.1 1.2 2 2.1 1.2 2.1 2.1 2.1 2.1	2 11 21,30202 8 8,21 0,11 0,12 1 1 1 1 0,1 0,12 0,02 1 1 1 0,12 0,02 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Med provedide to review Need provedide to review 1333388,77 Need provedide to review	Not preside to reter  Not preside to reter  1232288,8  Not preside to reter	OK OK
18 19 20 21 22	2.3 20.01 12 12 1.1 1.89 1 1.89 1 1 2.1 1.2 2.3 1111111.3 2123233.3 0.21 1 1 2 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3	2 1 21,30303 0,21 0,1 0,1 0,1 1 1 1 1 1 0,1 0,1 0,1 0,1	Med provedide to review Need provedide to review 1333388,77 Need provedide to review	Nati presabile to redee  Nati presabile to redee  1333388,6  Nati presabile to redee	OK OK OK
18 19 20 21 22	2.8 20.01 12 12 1 1.02 1 1.02 1 2.1 1.2 2.1 1.2 2.1 2.1 2.1 2.1 2.1	2 1 21.33333 0.21 0.1 0.83 2 1 1 1 1 1 0.1 0.12 0.83 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Med provedide to review Need provedide to review 1333388,77 Need provedide to review	Nati presabile to redee  Nati presabile to redee  1333388,6  Nati presabile to redee	OK OK OK
18 18 20 21 22 23	2.8 21.01 12 12 1 1.02 1 1 2.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	2 11 21,30202 8,21 6,21 1 1,22 1,1,1 1 1,1 1,1 1,1 1,1 1,1 1	Med provedide in order  Ned provedide in order  1333388,TT  Med provedide in order  3	Ned presable to reder  Ned presable to reder  13333888  Ned presable to reder  3	OK OK OK
18 19 20 21 22	2.8 23.01 12 12 1 1.82 1 1.82 1 1.9 1 2.1 1.3 2.2 0.31 1111111.3 233233.2 0.31 1 1 2 0.31 1 1 2 0.31 1 1 2 0.31 1 1 1 2 0.31 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 21,30302 0,21 0,1 0,83 2 1 1 1 1 1 1 1 1 0,1 0,83 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Med provedide in order  Ned provedide in order  1333388,TT  Med provedide in order  3	Nati presabile to redee  Nati presabile to redee  1333388,6  Nati presabile to redee	OK OK OK
18 18 20 21 22 23	2.8 21.01 12 12 1 1.02 1 1.03 1 2.1 1.03 2.1 1.03 1.0	2 1 21.30303 0.21 0.1 0.83 2 1 1 1 1 1 1 0.1 0.83 0.83 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Med provedide in order  Ned provedide in order  1333388,TT  Med provedide in order  3	Ned presable to reder  Ned presable to reder  13333888  Ned presable to reder  3	OK OK OK
18 18 20 21 22 23	2.8 21.01 12 12 1 1.02 1 1.03 1 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	2 1 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Ned possible to entire Ned possible to entire 1233388,77 Ned possible to entire 2 Ned possible to entire Ned possible to entire	Not preside to reter  Not preside to reter  1333388,8  Not preside to reter  2  Not preside to reter  Not preside to reter	OK  OK  In work  OK  OK  OK
18 18 20 21 22 23	2.3 23.01 12 12 1 1.82 1 1.82 1 1.2 1 2.1 1.3 2 2.2 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3	2 1 21,30302 0,21 0,11 0,83 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ned possible to entire Ned possible to entire 1233388,77 Ned possible to entire 2 Ned possible to entire Ned possible to entire	Ned presable to reder  Ned presable to reder  13333888  Ned presable to reder  3	OK OK OK
18 18 20 21 22 23	2.8 21.01 12 12 1 1.02 1 1.03 1 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 1.3 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	2 1 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Ned possible to entire Ned possible to entire 1233388,77 Ned possible to entire 2 Ned possible to entire Ned possible to entire	Not preside to reter  Not preside to reter  1333388,8  Not preside to reter  2  Not preside to reter  Not preside to reter	OK  OK  In work  OK  OK  OK

#### Testing Results for Entre Hilos & Algodón Management Software

