

Manufacturer (trade mark):	Clover Germany	Type/Model OEM:	CE250A
Lot/Part number:	CP3525ABEP	Toner color(s):	BLACK
Main application:	To be used on the relevant printers according to remanufacturer instructions		
Intended yield:	5000	Take over value of existing test protocol :	(box) Yes, from ISO19752
Test device:	CNCTB89J52 / CNCT91LGQS / CNCT9B5GHF		
Test climate:	Temperature: 23		
Deviations of the determined test conditions	Tester 1): Aleksandar Kojić	Test location 2):	TRS EUROPE
	Test date: 3.12.2014		

1) If values are taken over from test protocol, the signing person is responsible, that the protocols, from which the values have been taken off, are plausible and correct.
 2) Either testing place or place where the protocol is made

Test sample (A)	Type	Used for valuation	Charge/Serial number
1	5327	Yes	
2	6020	Yes	
3	7800	Yes	We use for A1 the
4	5728	Yes	MAX, for A2 the
5	5960	Yes	MEDIAN and for A3 the
6	6410	Yes	MIN value of the list at
7	5984	Yes	left
8	6215	Yes	
9	6780	Yes	

Comparing Sample (B)	Type	Used for valuation	Charge/Serial number
1	5000	Yes/no	Yes
2	5000	Yes/no	Yes
3	5000	Yes/no	Yes
4		Yes/no	
5		Yes/no	

OEM data taken from OEMs own ISO19752 or ISO19798 declarations of yield

Administrative checking of health related attributes (5.2)

Is there an EG- Safety Data Sheet of the used toner? Yes/no **Yes**

If there are no information of the AMES test in the EG Safety Data Sheet

Is there a test report about the AMES test of the used toner? Yes/no **Not Aplicable**

If not: Description **All MSDSs mention Ames test**

Checking the influence of the toner module on the printer (5.3)

Is the toner leaking less than the original? Yes/no **Yes**

Is the interaction between printer and toner module acceptable? Yes/no **Yes**

If not: Description

Checking the initialization (5.4)

Is the print out acceptable right after the toner module has been inserted? Yes/no **Yes**

If not: Describe fault

Checking the yield number (5.5)

	1	2	3	Average (A or V)
Yield A: (A1+A2+A3)/3= \bar{A}	7800	6020	5327	6382
Yield V: (V1+V2+V3)/3= \bar{V}	5000	5000	5000	5000

Alternative:

Yield A: Result of test after ISO/IEC 19752 \bar{A}

Reference to the test protocol:

Test date:

Yield V: Result of test after ISO/IEC 19752 \bar{V}

Reference to the test protocol:

Test date:

Result: $EZ = \bar{A} / \bar{V}$

	Yes	No	Not Aplicable
Is the expected yield (EZ) reached?	YES		
Is the expected page yield reached?	YES		

Checking the black print/Color reproduction (5.6.2)

Average value of the 2 areas F test print A1: 23,6

Average value of the 2 areas F comparing print V1: 22,6

Difference is not higher than Δ^*+5 for Monochrom	1	Yes/no/Not Aplicable	Yes
Color difference $\Delta E \leq 18$ for Color		Yes/no/Not Aplicable	N/A
Average value of the 2 areas F test print A2:	24,8		
Average value of the 2 areas F comparing print V2:	23,6		
Difference is not higher than Δ^*+5 for Monochrom	1,2	Yes/no/Not Aplicable	Yes
Color difference $\Delta E \leq 18$ for Color		Yes/no/Not Aplicable	N/A
Average value of the 2 areas F test print A3:	23,3		
Average value of the 2 areas F comparing print V3:	23,7		
Difference is not higher than Δ^*+5 for Monochrom	0,4	Yes/no/Not Aplicable	Yes
Color difference $\Delta E \leq 18$ for Color		Yes/no/Not Aplicable	N/A

Checking the fade (5.6.3)

BLACK

Test print A1				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,8	70,6	48,6	26,8
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,5	1,6	2,7	4,1
Comparing print V1				
Color values 1 6 A F	1	6	A	F
after 50 pages	89,9	68,4	47,2	25
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,4	1,4	3,4	3,1
Result determination				
Difference	1	6	A	F
$\Delta L \leq 8$	0,1	0,2	0,7	1
Difference within allowed parameters	Yes	Yes	Yes	Yes

BLACK

Test print A2				
Color values 1 6 A F	1	6	A	F
after 50 pages	91,1	69,8	47,4	26,7
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,3	1	4,2	2,9
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	88,7	66,8	44	24,2
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,9	3,1	3,1	2,5
Result determination				
Difference	1	6	A	F
$\Delta L \leq 8$	0,4	2,1	1,1	0,4
Difference within allowed parameters	Yes	Yes	Yes	Yes

BLACK

Test print A3				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,5	70,7	49,1	26,3
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,7	2	3	4,1
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	88,7	68,2	44,7	24,9
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,1	1,5	3,2	2,7
Result determination				
Difference	1	6	A	F
$\Delta L \leq 8$	0,4	0,5	0,2	1,4
Difference within allowed parameters	Yes	Yes	Yes	Yes

Checking toner adhesion

Test process: visual (tape method):

Is the resistance in between the acceptable parameters? Yes
If not: Describe deviation

Checking the grey page/color uniformity (5.6.5)

Are the lightness differences in between the acceptable parameters? Yes
If not: Describe deviation

Checking the background (5.6.6)

Is the background smudge in between the acceptable parameters (pattern B1)? Yes
If not: Describe deviation

Checking the ghosting (5.6.7)

Is the repeating of the back rectangles in between the acceptable parameters (pattern B2)? Yes
If not: Describe deviation

Checking toner miscibility (5.6.8)

Is the toner miscibility given? N/A
If not: Describe deviation

OVERALL RESULT: Passed