

Manufacturer (trade mark):	Clover Germany	Type/Model OEM:	CF322A
Lot/Part number:	0	Toner color(s):	YELLOW
Main application:	To be used on the relevant printers according to remanufacturer instructions		
Intended yield:	16500 JPDVG6NO45 / JPDVG6V1HM / JP2VG1H1H6	Take over value of existing test protocol :	
Test device:	JP2VG1H1H6	(box) Yes, from ISO19798	
Test climate:	24	Relative humidity:	45
Temperature:	24	Test location 2:	TRS EUROPE
Deviations of the determined test conditions			
Tester 1:	Aleksandar Kojic	Test date:	16.10.2015

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 19385		Yes	Sample 1
2 19112		Yes	Sample 2
3 19005		Yes We use for A1 the	Sample 3
4 18411		Yes MAX, for A2 the	Sample 4
5 18500		Yes MEDIAN and for A3 the	Sample 5
6 18456		Yes MIN value of the list at	Sample 6
7 16599		Yes left	Sample 7
8 17036		Yes	Sample 8
9 18254		Yes	Sample 9

Comparing Sample (B)	Type	Used for valuation	Charge/Serial number
1 16500		Yes	OEM Sample/Spec
2 16500		Yes	OEM Sample/Spec
3 16500		Yes	OEM Sample/Spec
4		Yes/no	
5		Yes/no	

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

Yes/no **Not Applicable**

Is there a test report about the AMES test of the used toner?

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)

YELLOW			
	1	2	3
Yield A: (A1+A2+A3)/3= \bar{A}	19385	18456	16599
Yield V: (V1+V2+V3)/3=V	16500	16500	16500

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 V

Reference to the test protocol:

Test date:

Result: EZ= \bar{A} /V

Is the expected yield (EZ) reached?

Yes

No

Not Applicable

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: 86,4

Average value of the 2 areas F comparing print V1: 88,4

Difference is not higher than $\Delta \leq 5$ for Monochrom

Color difference $\Delta E \leq 18$ for Color

Yes/No/Not Applicable

Not Applicable

Yes/No/Not Applicable

Yes

Average value of the 2 areas F test print A2: 87,3

Average value of the 2 areas F comparing print V2: 88,6

Difference is not higher than $\Delta \leq 5$ for Monochrom

Color difference $\Delta E \leq 18$ for Color

Yes/No/Not Applicable

Not Applicable

Yes/No/Not Applicable

Yes

Average value of the 2 areas F test print A3: 87,1

Average value of the 2 areas F comparing print V3: 88,8

Yes/No/Not Applicable

Not Applicable

Yes/No/Not Applicable

Yes

Difference is not higher than $\Delta L \leq 5$ for Monochrom
Color difference $\Delta E \leq 18$ for Color

Not Applicable	1,7
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Yes/No/Not Applicable
Yes/No/Not Applicable

Not Applicable	Yes
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Checking the fade (5.6.3)**YELLOW****Test print A1**

Color values 1 6 A F	1	6	A	F
after 50 pages	91,8	90,6	88,4	86,9
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,4	0,5	0,6	0,8
Comparing print V1				
Color values 1 6 A F	1	6	A	F
after 50 pages	92	91,1	89,6	88,7
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,4	0,4	0,6	0,6
Result determination	1	6	A	F
Difference $\Delta L \leq 8$	0	0,1	0	0,2
Difference within allowed parameters	YES	YES	YES	YES

Test print A2 YELLOW

Color values 1 6 A F	1	6	A	F
after 50 pages	92,5	91,6	89,4	88,2
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,6	0,9	1	1,5
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,6	91,2	89,6	88,5
Color values 1 6 A F	1	6	A	F
The biggest deviation	1	0,4	0,5	0,4
Result determination	1	6	A	F
Difference $\Delta L \leq 8$	1	0,5	0,5	1,1
Difference within allowed parameters	YES	YES	YES	YES

Test print A3 YELLOW

Color values 1 6 A F	1	6	A	F
after 50 pages	91,9	91	89	87,3
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,5	0,6	0,7	1
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	92,2	91,3	89,1	88,7
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,6	0,7	1,1	0,4
Result determination	1	6	A	F
Difference $\Delta L \leq 8$	0,9	0,1	0,4	0,6
Difference within allowed parameters	YES	YES	YES	YES

Checking toner adhesion

Test process: visual (tape method):

Is the resistance in between the acceptable parameters?

If not: Describe deviation

Yes

Checking the grey page/color uniformity (5.6.5)Are the color differences in between the acceptable parameters (pattern B2-B5) $\Delta E \leq 8$?

If not: Describe deviation

Yes

Checking the background (5.6.6)

Is the background smudge between the acceptable parameters (pattern B1-B5)?

If not: Describe deviation

Yes

Checking the ghosting (5.6.7)

Is the repeating of the back rectangles in between the acceptable parameters (pattern B2-B5)?

If not: Describe deviation

Yes

Checking toner miscibility (5.6.8)

Is the toner miscibility given?

If not: Describe deviation

N/A

OVERALL RESULT: Passed