

Manufacturer (trade mark): DPC45APE	Type/Model OEM: Q5945A Toner color(s): Monochrome
Lot/Part number:	Main application: To be used on the relevant printers according to remanufacturer instructions
Intended yield: CNBR78202Q / CNBR6C100D / CNBR71R00P	Take over value of existing test protocol : (box) Yes, from ISO19752
Test device: Test climate: Temperature: 21	Relative humidity: 43
Deviations of the determined test conditions Tester 1): Aleksandar Kojic Test date: 11.5.2016	

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 18780		Yes	Sample 1
2 20541		Yes	Sample 2
3 19630		Yes We use for A1 the	Sample 3
4 18950		Yes MAX, for A2 the	Sample 4
5 19500		Yes MEDIAN and for A3 the	Sample 5
6 20514		Yes MIN value of the list at	Sample 6
7 18515		left	Sample 7
8 20217		Yes	Sample 8
9 20685		Yes	Sample 9

Comparing Sample (B)	Type	Used for valuation	Charge/Serial number
1 18000		Yes	OEM Sample/Spec
2 18000		Yes	OEM Sample/Spec
3 18000		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)

Monochrome				Average (\bar{A} or V)
1	2	3		
Yield A: $(A1+A2+A3)/3 = \bar{A}$	20685	19630	18515	19610
Yield V: $(V1+V2+V3)/3 = V$	18000	18000	18000	18000

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

YES

Checking the black print/Color reproduction (5.6.2)

Average value of the 2 areas F test print A1: 20,9

Average value of the 2 areas F comparing print V1: 19,2

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

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

Yes/No/Not Applicable

Yes

Yes/No/Not Applicable

Not Applicable

Average value of the 2 areas F test print A2: 19,3

Average value of the 2 areas F comparing print V2: 18,9

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

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

Yes/No/Not Applicable

Yes

Yes/No/Not Applicable

Not Applicable

Average value of the 2 areas F test print A3: 20

Average value of the 2 areas F comparing print V3: 19,1

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

0,9	
Not applicable	

Yes/No/Not Applicable

Yes
Yes/No/Not Applicable
Not Applicable

Checking the fade (5.6.3)**Monochrome****Test print A1**

Color values 1 6 A F	1	6	A	F
after 50 pages	90,8	72,5	51,3	21,2
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,4	5,9	13,5	0,8
Comparing print V1				
Color values 1 6 A F	1	6	A	F
after 50 pages	92,8	76,4	52,9	19,9
Color values 1 6 A F	1	6	A	F
The biggest deviation	4	12,7	14,2	1
Result determination	1	6	A	F
Difference $\Delta L \leq 8$	2,6	6,8	0,7	0,2
Difference within allowed parameters	YES	YES	YES	YES

Test print A2 Monochrome

Color values 1 6 A F	1	6	A	F
after 50 pages	87,9	61,4	37,4	19,5
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,5	1,9	5,2	0,6
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	92,3	71,4	46,8	19,5
Color values 1 6 A F	1	6	A	F
The biggest deviation	4,4	8,4	7,2	1,1
Result determination	1	6	A	F
Difference $\Delta L \leq 8$	3	6,5	2	0,5
Difference within allowed parameters	YES	YES	YES	YES

Test print A3 Monochrome

Color values 1 6 A F	1	6	A	F
after 50 pages	90,9	70	37,7	19,7
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,2	3,3	0,7	0,6
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,5	72,3	41,3	18,6
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,2	6,5	4,4	1,4
Result determination	1	6	A	F
Difference $\Delta L \leq 8$	0	3,2	3,7	0,8
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 differences in brightness between the acceptable parameters (pattern B2) $\Delta L \leq 5$?

If not: Describe deviation

Yes

Checking the background (5.6.6)

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

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)?

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