

NCS

Pre-order

Production

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NCS QUALITY LEVELS

NCS QUALITY LEVEL 1

Fans and professional working tools for industry, research and design.

Tolerances from NCS Primary Standards:

80% $\Delta E_{2000} < 0.6$

100% $\Delta E_{2000} < 1.0$

Gloss 15-20

NCS QUALITY LEVEL 2

Products such as take-away cards

Tolerances from NCS Primary Standards:

70% $\Delta E_{2000} < 0.6$

90% $\Delta E_{2000} < 1.0$

100% $\Delta E_{2000} < 1.5$

Gloss 13-22

LIGHT SOURCES: D65, A, F11

All evaluation of colour differences is done in the three light sources D65, A and F11. D65 is standard daylight, A is tungsten light and F11 is a representative three-band fluorescent light.

MEASUREMENT CONDITIONS

Measurement values are evaluated according to CIE 15:2004. Measurement geometry $d_i:8^\circ$ (diffuse illumination, specular component included), UV component included, readings every 10 nm from 360 to 750 nm. All $\Delta E_{2000}(1:1:1)$ values are calculated according to CIE DE2000 in accordance with CIE 142-2001. NCS S 0500-N (white) is used as a sample backing in reflectance measurement. Standard light sources used are D65, A and F11 (CIE 15:2004). Gloss measurements in accordance to ISO 2813, 60° .

CONTROLLED AND CERTIFIED

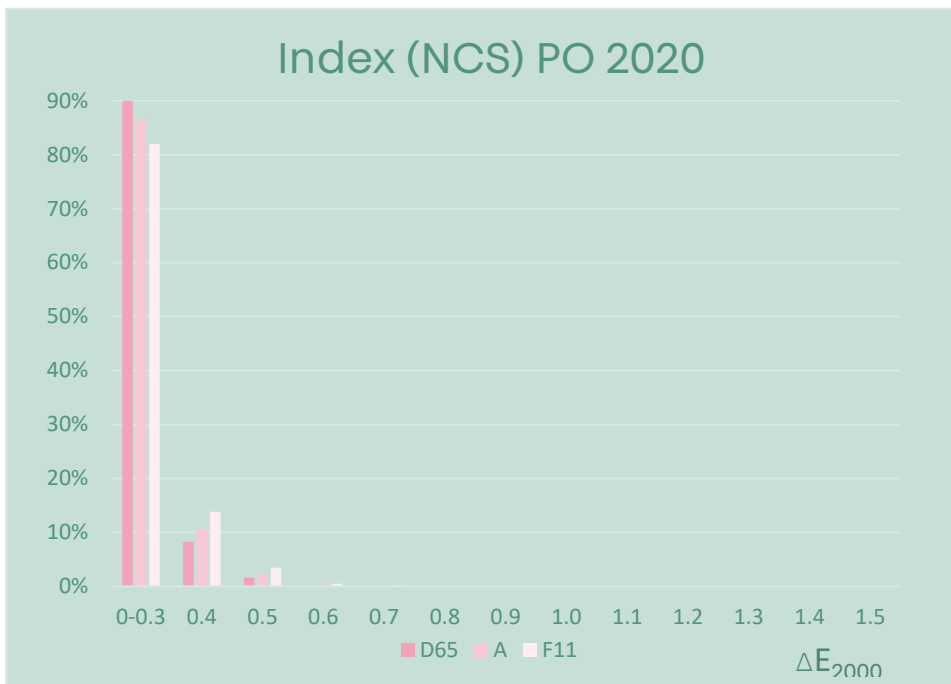
Products that are controlled by NCS Reference Lab and meet all the NCS Quality Management requirements may be marked with the Quality symbol.



PRODUCTION RESULTS

INDEX, QL1 2020

Difference between production and the NCS Primary standard, colour accuracy.

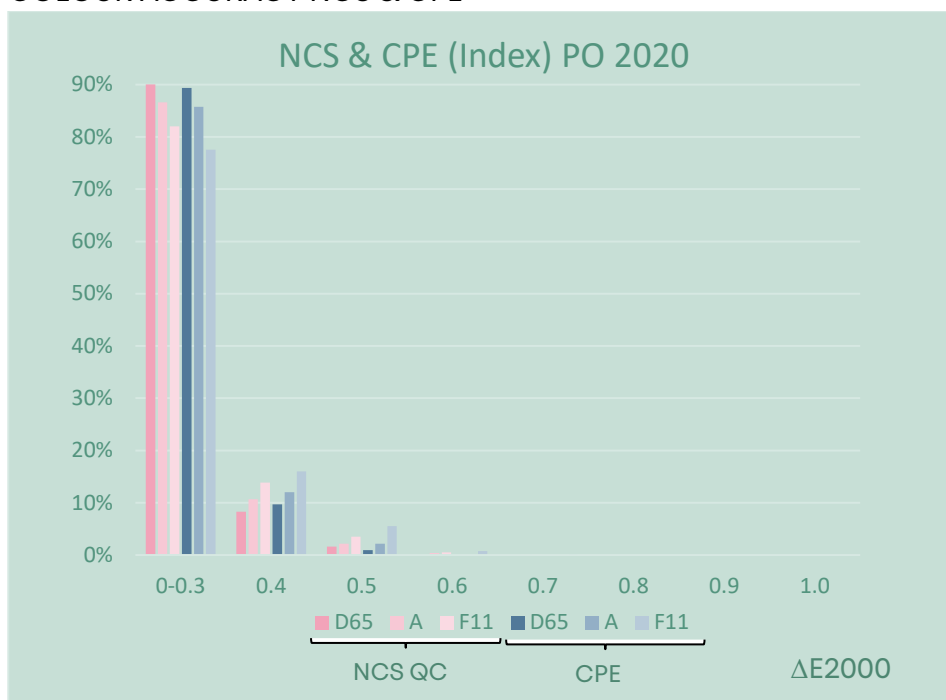


ΔE ₂₀₀₀	D65	A	F11
0-0.3	90.1%	86.6%	82.0%

NCS Quality Level 1, 2020 (Index)

ΔE ₂₀₀₀	D65	A	F11
0-0.6	100.0%	99.9%	99.9%
0.6-1.0	0.0%	0.1%	0.1%
1.0-1.5	0.0%	0.0%	0.0%

INDEX, QL1 2020
 COLOUR ACCURACY NCS & CPE



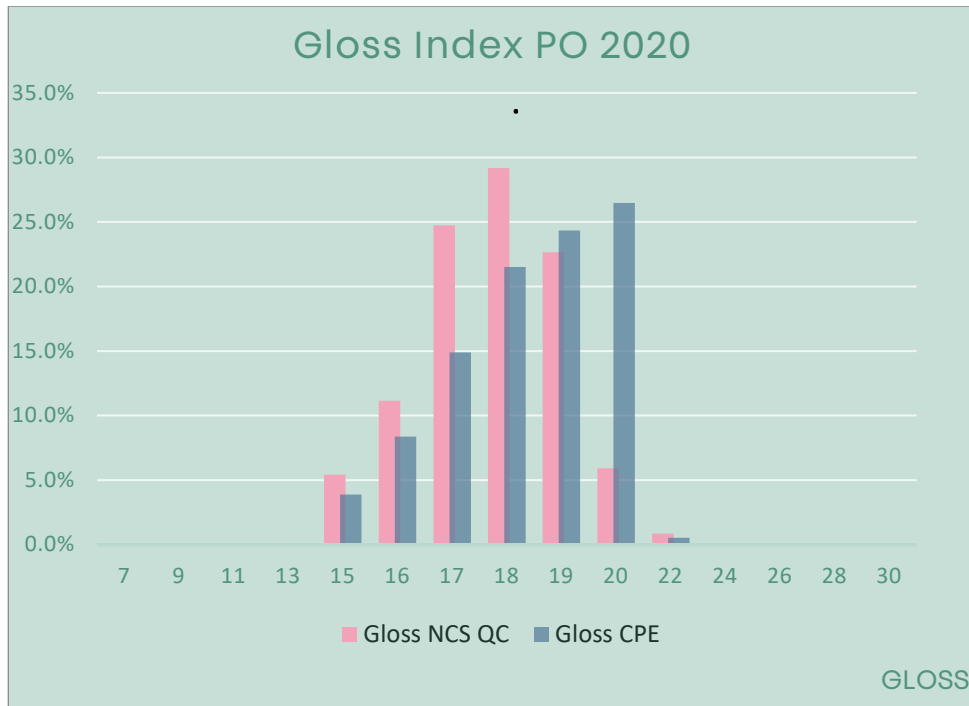
NCS QC PO2020

ΔE2000	D65	A	F11
0-0.3	90.1%	86.6%	82.0%
0-0.6	100.0%	99.9%	99.9%
0.6-1.0	0.0%	0.1%	0.1%
1.0-1.5	0.0%	0.0%	0.0%

CPE PO2020

ΔE2000	D65	A	F11
0-0.3	89.3%	85.8%	77.6%
0-0.6	100.0%	100.0%	99.9%
0.6-1.0	0.0%	0.0%	0.1%
1.0-1.5	0.0%	0.0%	0.0%

INDEX, QL1 2020
GLOSS ACCURACY NCS & CPE



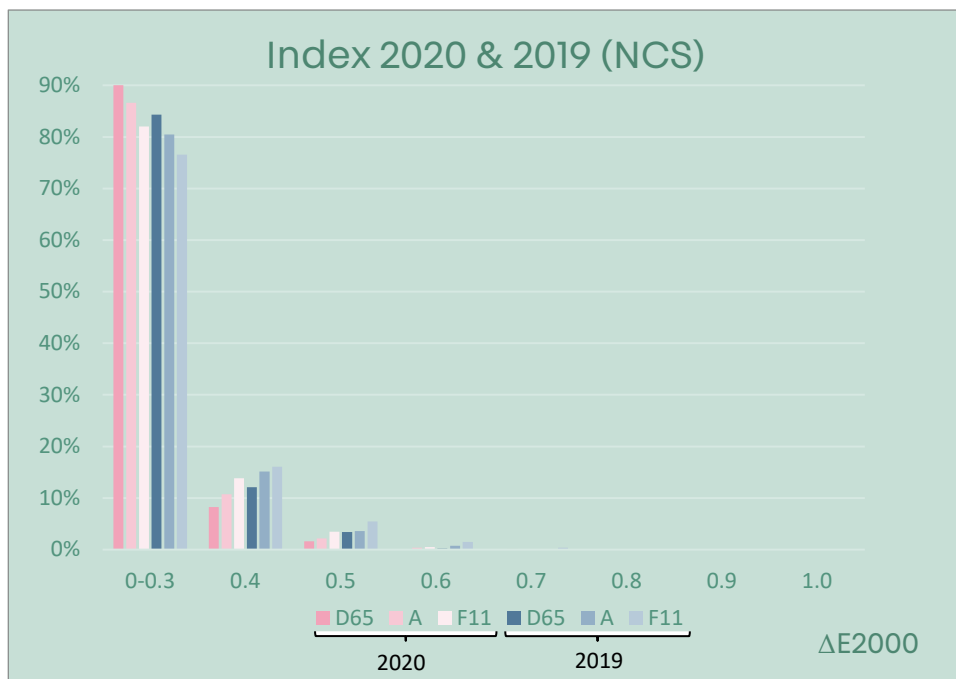
NCS QC

GLOSS 60°	FRACTION
11	0.0%
13	0.1%
15	5.4%
16	11.1%
17	24.7%
18	29.2%
19	22.6%
20	5.9%
22	0.8%
24	0.0%

CPE

GLOSS 60°	FRACTION
11	0.0%
13	0.0%
15	3.9%
16	8.4%
17	14.9%
18	21.5%
19	24.3%
20	26.5%
22	0.5%
24	0.0%

INDEX, QL1 2020
COLOUR ACCURACY PO2020 & PO2019



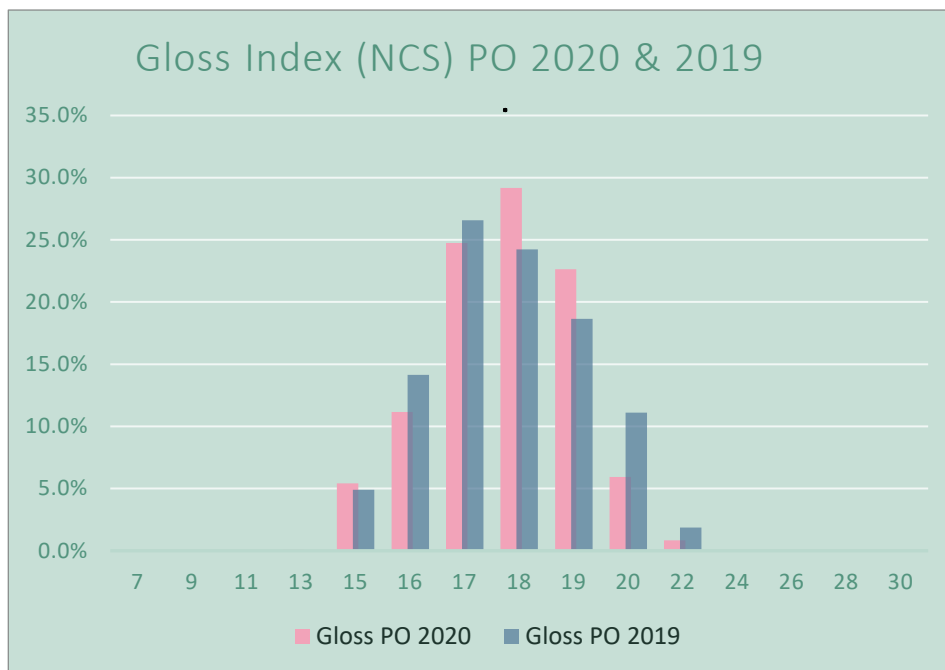
INDEX PO2020

ΔE2000	D65	A	F11
0-0.3	90.1%	86.6%	82.0%
0-0.6	100.0%	99.9%	99.9%
0.6-1.0	0.0%	0.1%	0.1%
1.0-1.5	0.0%	0.0%	0.0%

INDEX PO2019

ΔE2000	D65	A	F11
0-0.3	84.3%	80.5%	76.6%
0-0.6	100.0%	100.0%	99.6%
0.6-1.0	0.0%	0.0%	0.4%
1.0-1.5	0.0%	0.0%	0.0%

INDEX, QL1 2020
GLOSS ACCURACY PO2020 & PO2019



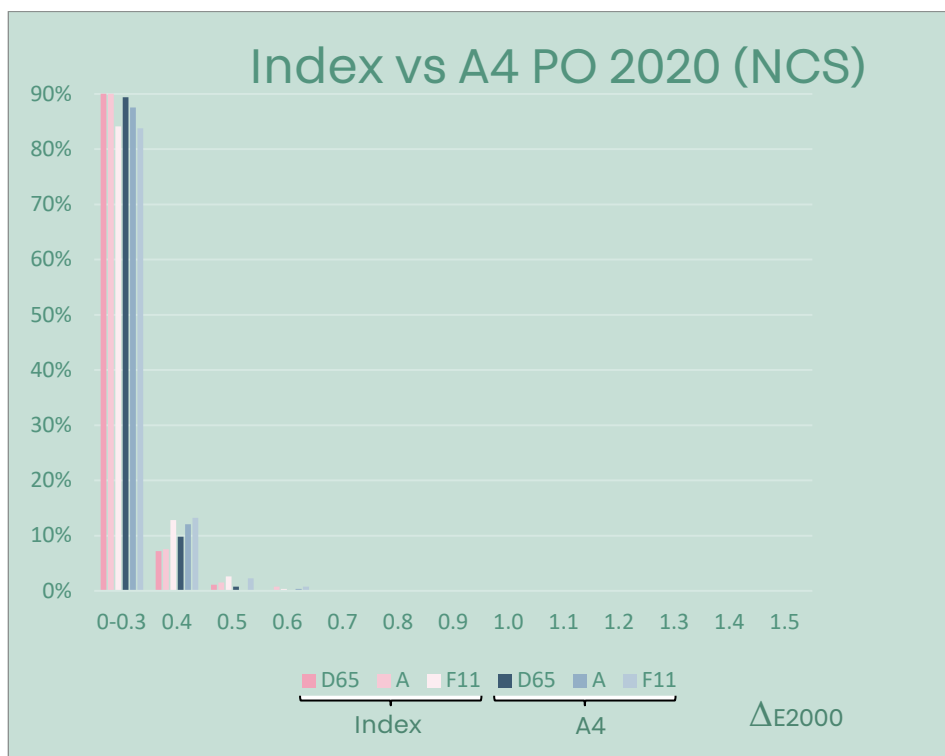
INDEX PO2020

GLOSS 60°	FRACTION
11	0.0%
13	0.1%
15	5.4%
16	11.1%
17	24.7%
18	29.2%
19	22.6%
20	5.9%
22	0.8%
24	0.0%

INDEX PO2019

GLOSS 60°	FRACTION
11	0.0%
13	0.0%
15	4.9%
16	14.1%
17	26.6%
18	24.2%
19	18.6%
20	11.1%
22	1.9%
24	0.0%

INDEX, QL1 2020
 INEDX & A4 PO2020



INDEX – A4 COLOURS PO2020

ΔE2000	D65	A	F11
0-0.3	91.7%	90.2%	84.2%
0-0.6	100.0%	100.0%	100.0%
0.6-1.0	0.0%	0.0%	0.0%
1.0-1.5	0.0%	0.0%	0.0%

A4 PO2020

ΔE2000	D65	A	F11
0-0.3	89.4%	87.5%	83.8%
0-0.6	100.0%	100.0%	100.0%
0.6-1.0	0.0%	0.0%	0.0%
1.0-1.5	0.0%	0.0%	0.0%