

How to Use Color-Navi

Metallic-CCM



KCC Corporation

Color-Navi (Metallic-CCM for BAROMATCH)



KCC Color-Navi | 도로타입 | 바로매치

인쇄 | 개인설정 | 업데이트 | 종료

작업번호(색상) | 보정번호 이동

정면: 1.47
중간면: 1.12
측면: 1.02

차량색 | 조색시판색 | 삭제

양이

CI

1:	FM04	23.29(a)
2:	FM70	25.93(a)
3:	FM03	18.88(a)
4:	FM02	15.82(a)
5:		0.00(a)
6:		0.00(a)

1:	FM04	290.04(a)
2:		0.00(a)
3:		0.00(a)
1:		0.00(a)
2:		0.00(a)
3:		0.00(a)

1:	KA66F	40.12(a)
2:	FM01	1.95(a)
3:		0.00(a)

	수지	598.09(a)
	조색제 전체 무게	413.91(a)
	인체 무게	7000.00(a)

제조사: 갈라코드
다원화번호: KCC코드

유지역상 검색 | 유지역상 선택 | 자동 수정 | 미세 조정 | 배합 재입력 | 자동 조색(솔리드) | 수치비율 | 원하는무게 |

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Set up & Preparation

Making Formula using Color-Navi

Color DB

Question

1. Set up

1

Components



Computer

- CPU : Core2 Duo 2.4Ghz
- RAM : 4GB
- HDD : 100GB

Semi-Booth (for Trial pannels)



Color-Navi

- CCM Software
- Careful of virus

Baromatch

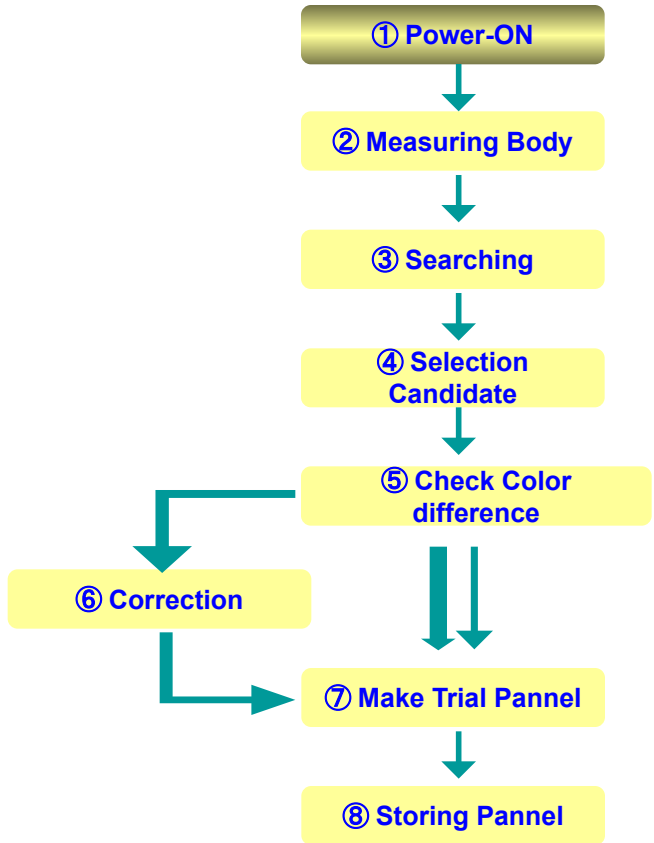


Spectrophotometer

- AA Battery (4ea)
- USB Connection Cable

2. How to use CCM (Metallic)

1 Power On



Computer On



Connecting Spectrophotometer

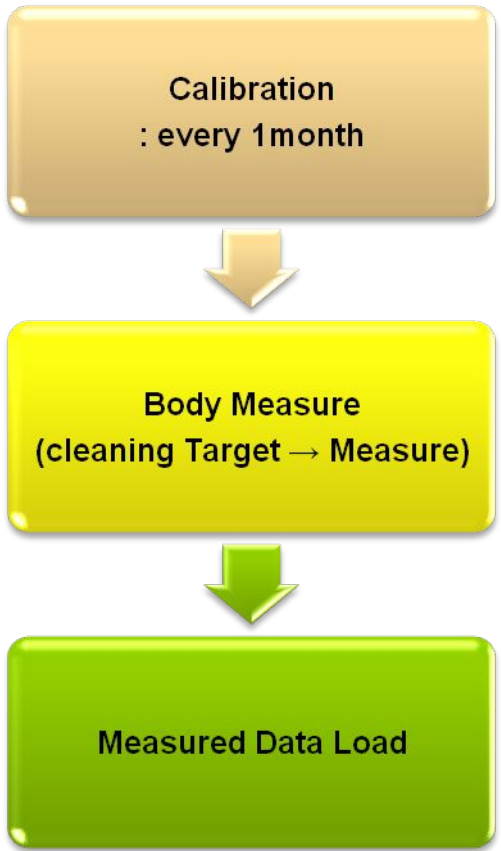
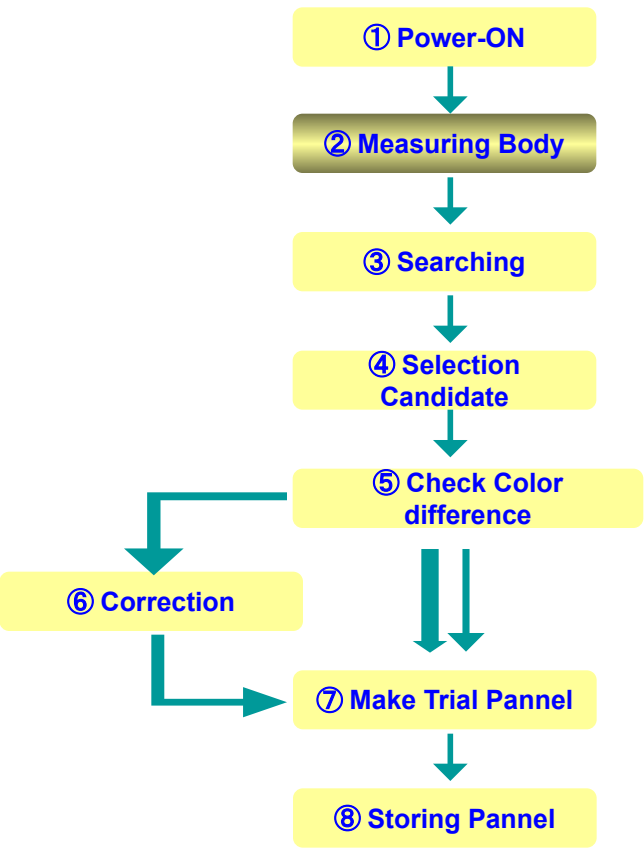


Run Program (Color-Navi)



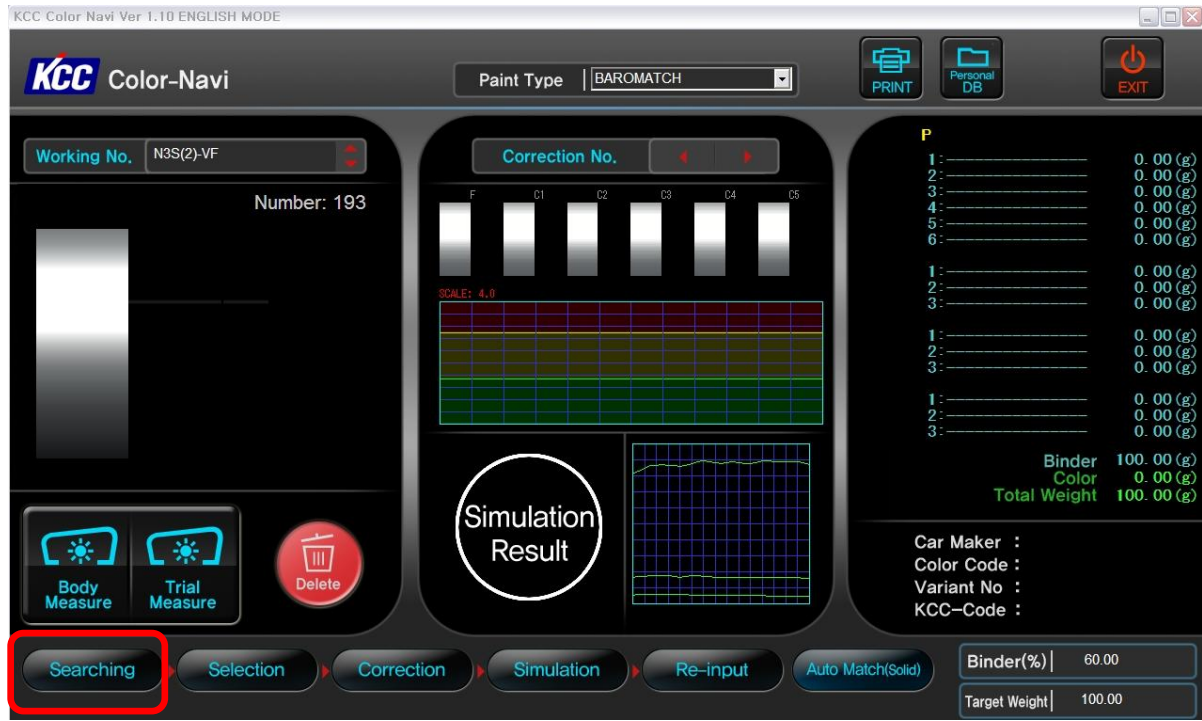
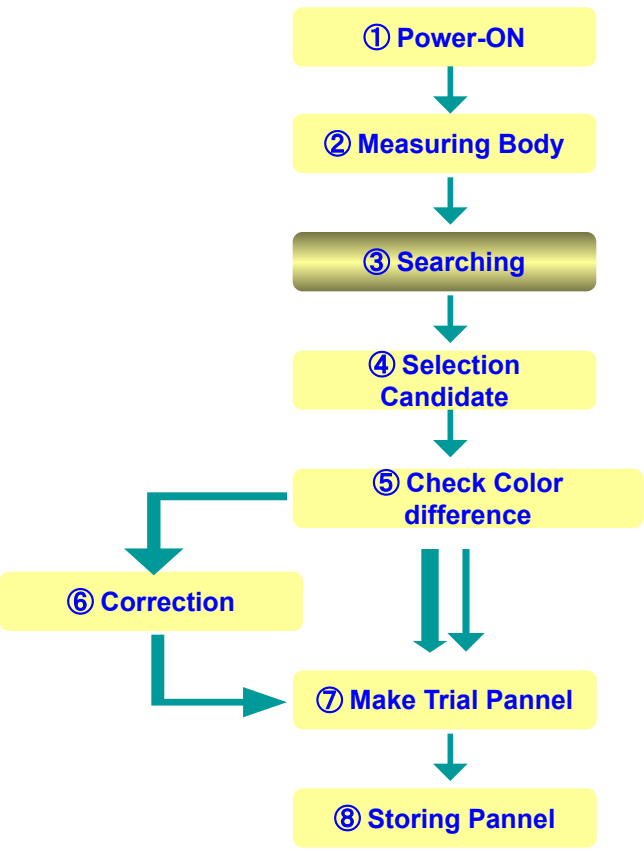
2. How to use CCM (Metallic)

2 Measuring Body



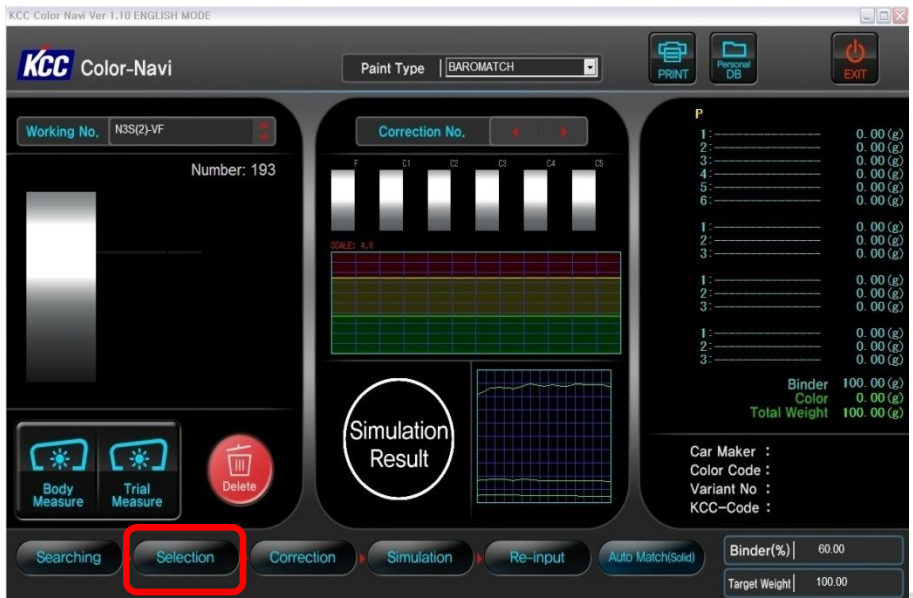
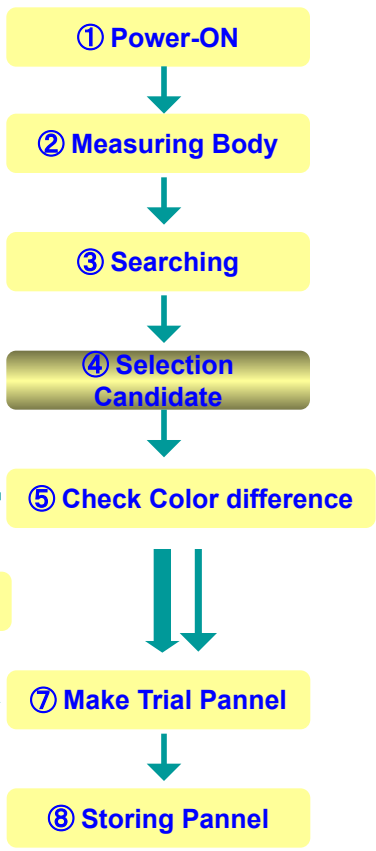
2. How to use CCM (Metallic)

3 Searching



2. How to use CCM (Metallic)

4 Selection Candidate



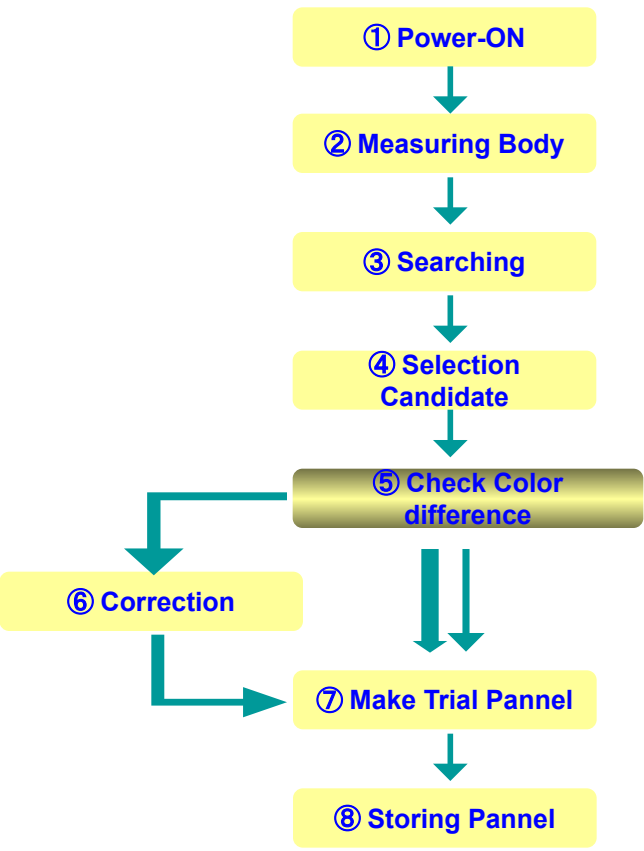
Tip :

- ① Considering about Sparkling, the KCC code can be helpful.
- ② Also, it can be a good choice that has similar shape of R-Curve.

CANDIDATE NO:01	CANDIDATE NO:02	CANDIDATE NO:03	CANDIDATE NO:04	CANDIDATE NO:05
15: 4.83 25: 2.80 45: 2.35 75: 1.44 110: 1.06	15: 3.77 25: 4.24 45: 2.78 75: 3.27 110: 2.43	15: 4.18 25: 3.04 45: 2.45 75: 4.22 110: 3.28	15: 5.36 25: 3.20 45: 3.48 75: 2.32 110: 2.95	15: 4.17 25: 3.44 45: 3.03 75: 1.57 110: 1.18
KMS04 2.38E KMS03 2.09E KMS02 1.83E KMS01 1.58E KMS00 0.00E total 0.00E	KMS00 0.72E KMS03 0.22E KMS02 0.22E KMS01 0.00E KMS00 0.00E total 0.00E	KMS04 0.30E KMS02 1.25E KMS03 0.25E KMS00 0.00E KMS00 0.00E total 0.00E	KMS02 5.08E KMS04 3.16E KMS03 2.10E KMS01 0.00E KMS00 0.00E total 0.00E	KMS02 1.85E KMS00 0.00E KMS00 0.00E KMS00 0.00E KMS00 0.00E total 0.00E
Product Name:W02046_M4 Product ID:17000 Color Code:R5 Car Maker:HYUNDAI Meter Code:1	Product Name:W02046_M6 Product ID:20000 Color Code:R5 Car Maker:HYUNDAI Meter Code:1	Product Name:W02046_M0 Product ID:20000 Color Code:R5 Car Maker:HYUNDAI Meter Code:1	Product Name:W02046_M4 Product ID:17000 Color Code:R5 Car Maker:HYUNDAI Meter Code:2	Product Name:W02046_M4 Product ID:20000 Color Code:R5 Car Maker:VOLKSWAGEN-AUDI Meter Code:1

2. How to use CCM (Metallic)

5 Check how different



KCC Color Navi Ver 1.10 ENGLISH MODE

KCC Color-Navi

Paint Type | BAROMATCH

PRINT Personal DB EXIT

Working No. GAR

Number: 198

Correction No. < >

Highlight: 1.31
Face: 0.36
Shade: 0.45

SCALE: 4.0

Good

Body Measure Trial Measure Delete

C1	
1:	KM702 14.73 (g)
2:	KM700 2.05 (g)
3:	KM204 3.40 (g)
4:	KM203 0.65 (g)
5:	KM300 0.40 (g)
6:	KM605 0.72 (g)
1:	KM807 2.82 (g)
2:	0.00 (g)
3:	0.00 (g)
1:	KM907 0.91 (g)
2:	KM904 0.73 (g)
3:	0.00 (g)
1:	KA69F 5.41 (g)
2:	KM101 0.11 (g)
3:	0.00 (g)
Binder	66.71 (g)
Color	31.93 (g)
Total Weight	98.64 (g)

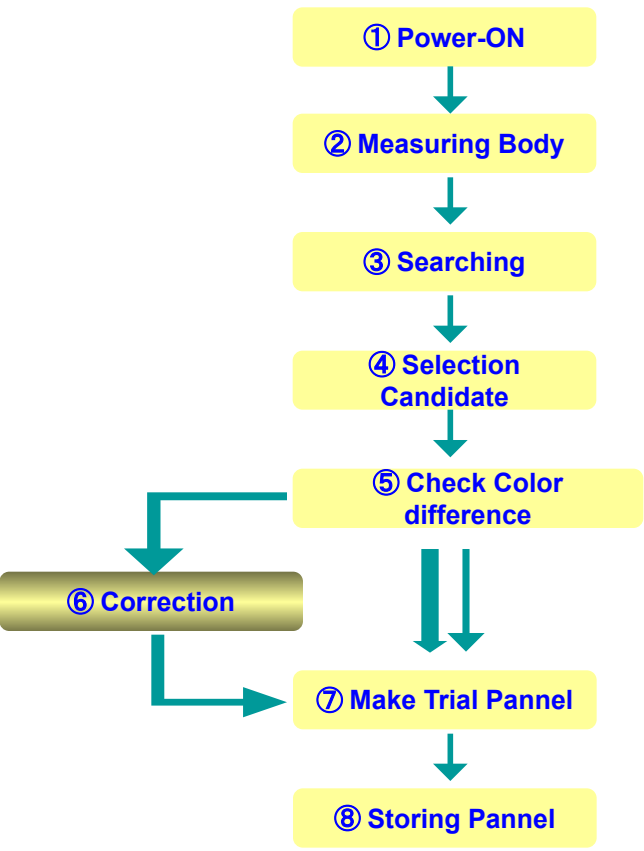
Car Maker : GM-DAEWOO
Color Code : 273000
Variant No : GAR
KCC-Code : KB0105. A7

Searching Selection Correction Simulation Re-input Auto Match(Solid)

Binder(%) | 67.63
Target Weight | 100.00

2. How to use CCM (Metallic)

6 Auto-correction / Manual Simulation



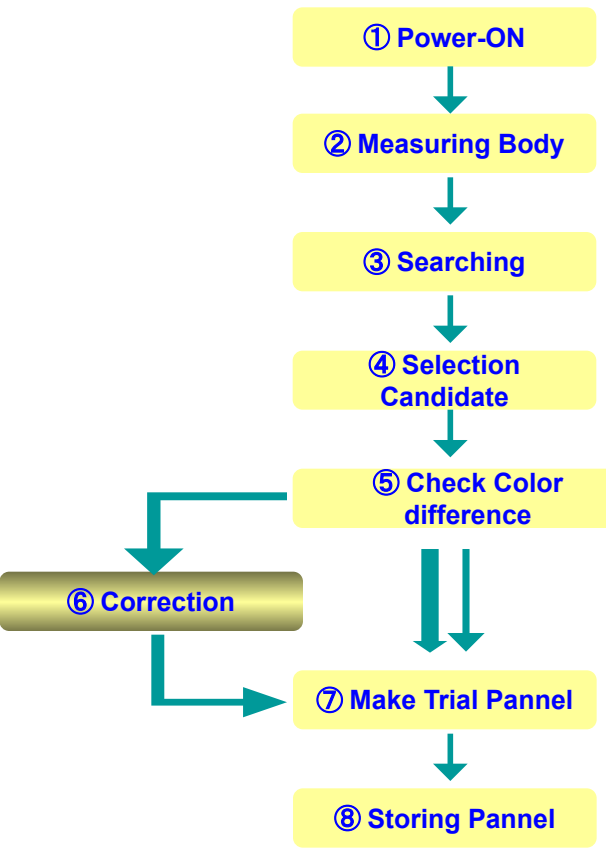
① Move to next step.
(Now you are C1, after click here, then you'll be C2)



② After move next step, please click here, then you can get a corrected formula.

2. How to use CCM (Metallic)

6 Auto-Correction / Manual Simulation



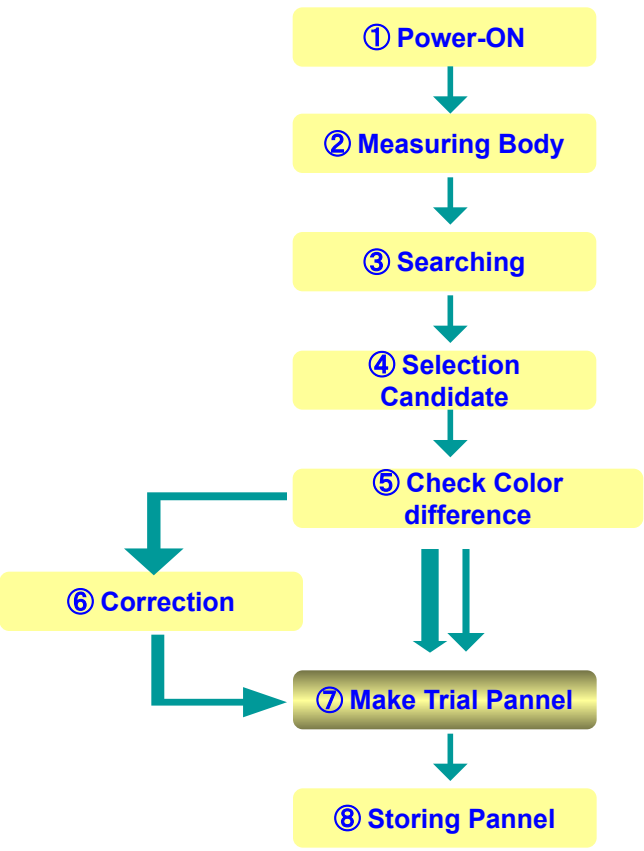
Tip :

- ① You can make manual formula which has smaller dE at specific degree.
- ② You can also make formula which will be close to actual viewing, even though that formula drive to bigger dE.



2. How to use CCM (Metallic)

7 Make Trial Panel



KCC Color-Navi Ver 1.10 ENGLISH MODE

Paint Type | BAROMATCH

Working No. GAR

Number: 198

Highlight: 0.00

Face: 0.20

Shade: 0.32

Correction No.

Simulation Result

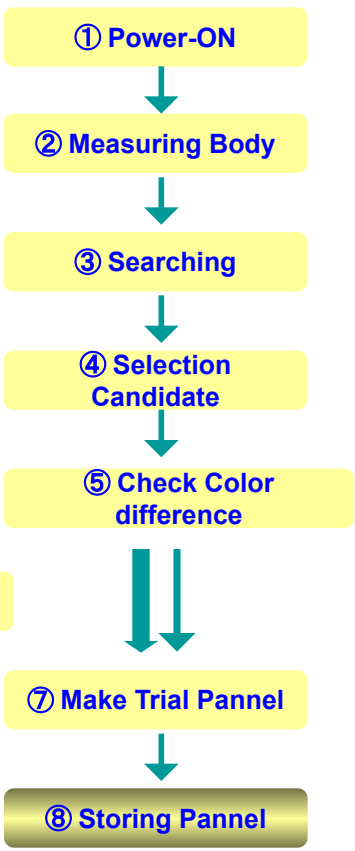
C2		
1:	KM702	15.95 (g)
2:	KM700	1.89 (g)
3:	KM204	3.29 (g)
4:	KM203	0.65 (g)
5:	KM300	0.20 (g)
6:	KM605	0.72 (g)
1:	KM807	2.72 (g)
2:		0.00 (g)
3:		0.00 (g)
1:	KM907	0.94 (g)
2:	KM904	0.70 (g)
3:		0.00 (g)
1:	KA69F	4.74 (g)
2:	KM101	0.14 (g)
3:		0.00 (g)
	Binder	66.71 (g)
	Color	31.93 (g)
	Total Weight	98.64 (g)

Car Maker : GM-DAEWOO
Color Code : 273000
Variant No : GAR
KCC-Code : KB0105_A7

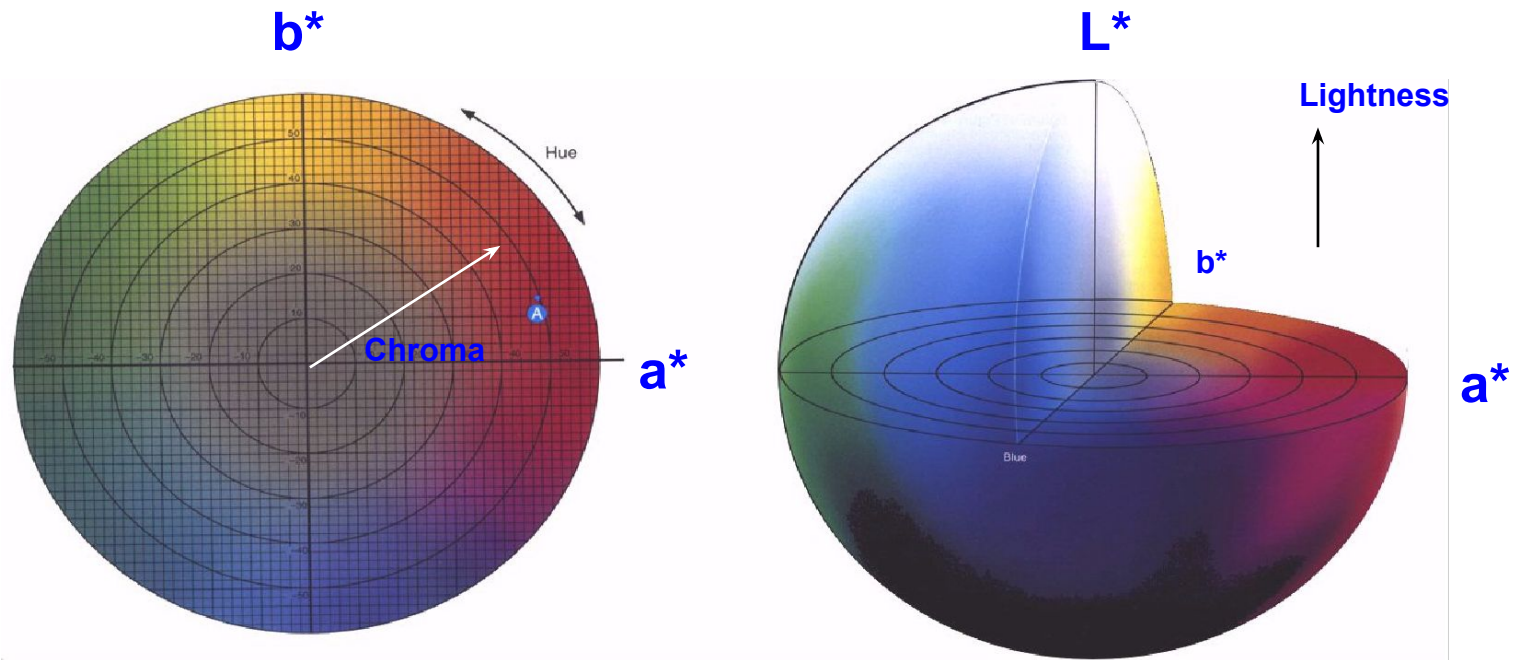
Binder(%) | 67.63
Target Weight | 100.00

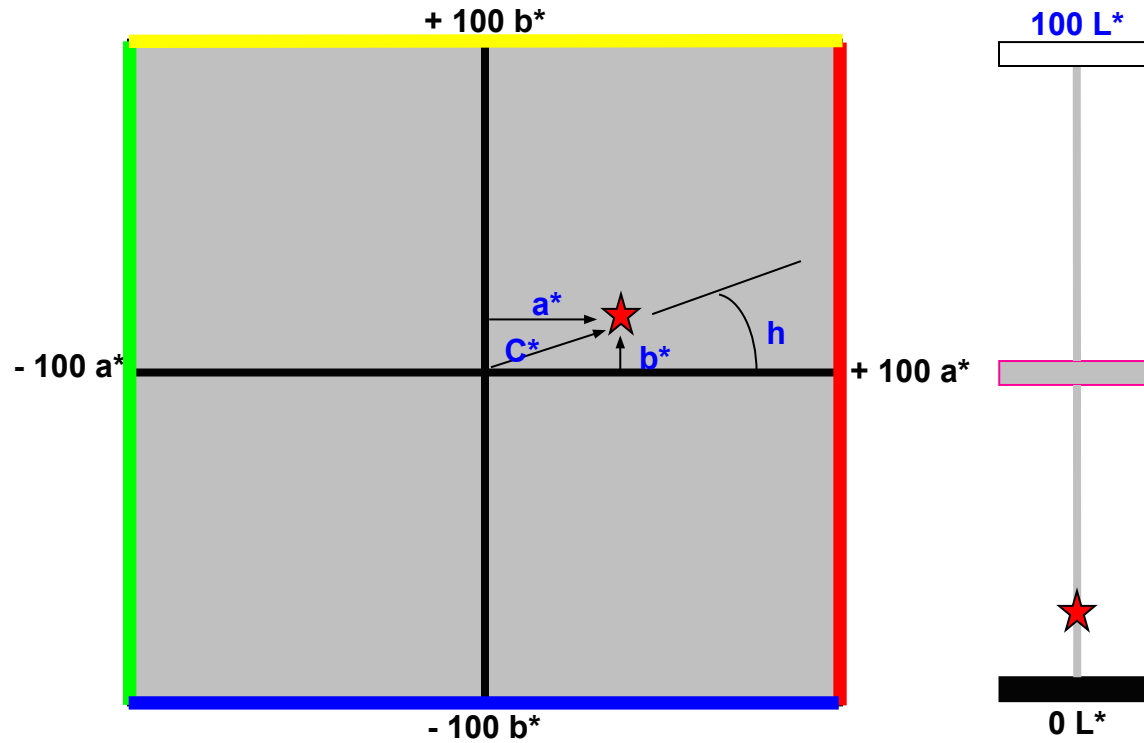
2. How to use CCM (Metallic)

8 Storing Panel



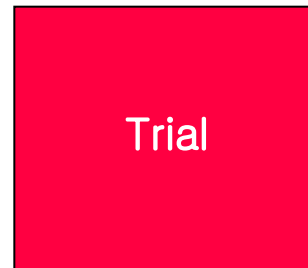
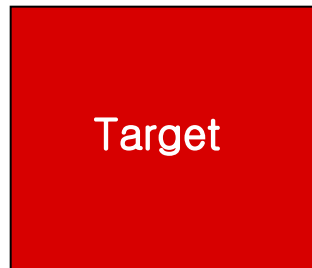
CIE Lab UCS (Uniform Color Space)





Illum	L^*	a^*	b^*
BARN RED 4X D65	30.86	44.04	18.50

Color difference



=
Trial is ..
Lighter
Redder
More Yellowish

$L^* = 30.86$

$a^* = 44.04$

$b^* = 18.50$

$L^* = 32.91$ $DL^* = 2.05$

$a^* = 46.66$ $Da^* = 2.62$

$b^* = 19.54$ $Db^* = 1.04$

* CIE_Lab

- CIELab
 - +DL* Lighter
 - DL* Darker
 - +Da* Redder (or) less Green
 - Da* more Greenish (or) less Red
 - +Db* more Yellowish (or) less Blue
 - Db* more Bluish (or) less Yellow

$$\Delta E^*_{ab} = \left[(\Delta L^*)^2 + (\Delta a^*)^2 + (\Delta b^*)^2 \right]^{1/2}$$