

Data sheets

Metallization on sapphire

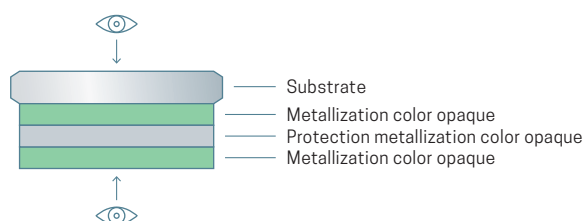
indirect



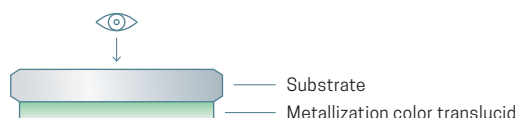
direct



2 sides



fumée



Metallization on sapphire

Coloured

● M21 Violet indirect	1
● M2 Bleu indirect F	2
● M25 Bleu Métal indirect	3
● M26 Bleu indirect	4
● M54 Bleu clair indirect	5
● M55 Bleu indirect	6
● M75 Bleu T10% indirect F	7
● M77 Bleu indirect	8
● M83 Bleu clair indirect	9
● M94 Bleu Spinelle indirect F	10
● M96 Bleu Bulgari indirect F	11
● M101 Bleu direct	12
● M107 Bleu indirect	13
● M119 Bleu T12.5% indirect F	14
● M124 Bleu T8% indirect F	15
● M135 Bleu T33.4% indirect F	16
● M142 Bleu T20% indirect F	17
● M43 Vert indirect F	18
● M52 Vert clair indirect	19
● M53 Vert indirect	20
● M78 Vert indirect	21
● M79 Vert Türkis indirect	22
● M84 Vert clair Türkis indirect	23
● M85 Vert clair indirect	24
● M80 Jaune indirect	25
● M86 Jaune clair indirect	26
● M7 Brun T31% F	27
● M9 Brun T38% F	28
● M44 Brun T70% indirect F	29
● M45 Brun T50% indirect F	30
● M59 Cognac indirect	31
● M81 Brun indirect	32
● M87 Brun clair indirect	33
● M122 Brun T9.6% indirect F	34
● M136 Brun indirect	35
● M139 Aubergine T10% indirect F	36
● M42 Rouge indirect F	37
● M70 Rouge Pantone 485 indirect	38
● M82 Rouge indirect	39

● M100 Bordeaux Pantone indirect F	40
● M88 Rose clair indirect	41
● M4 Noir indirect	42
● M10 Noir indirect	43
● M12 Noir 2 sides	44
● M23 Noir indirect	45
● M24 Noir direct	46
● M37 Noir indirect	47
● M123 Noir indirect	48
● M1 Anthracite indirect	49
● M3 Anthracite direct	50
● M18 Anthracite RAD0 indirect	51
● M36 Anthracite indirect	52
● M108 Anthracite indirect	53
● M130 Anthracite indirect	54
● M76 Gris chaud indirect	55

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● M5 Au 5N 2 sides	56
● M6 Au 2N direct	57
● M8 Or blanc indirect	58
● M16 Au 5N direct	59
● M28 Au 3.5N indirect	60
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● M31 Au 4N indirect	62
● M32 Au 5N indirect	63
● M33 Au 6N indirect	64
● M34 Au 2N indirect	65
● M40 Au SAR0 indirect	66
● M63 Au Clair indirect	67
● M64 Au 3N indirect	68
● M89 Au direct	69
● M93 Au 5N indirect	70
● M118 Au 1N indirect	71

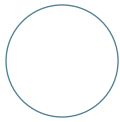
Metal

● M13 Palladium direct	72
● M14 Palladium indirect	73
● M15 Chrome T20% indirect F	74
● M17 Chrome T30% indirect F	75

● M19 Palladium T50% indirect F	76
● M20 Palladium T29% indirect F	77
● M22 Chrome T35% indirect F	78
● M27 Chrome T40% indirect F	79
● M29 Titane Fake indirect	80
● M35 Nitrure de chrome 2 sides	81
● M38 Palladium indirect	82
● M39 Chrome T80% indirect F	83
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● M46 Chrome T62% indirect F	85
● M50 Rhodium indirect	86
● M56 Chrome T37% indirect F	87
● M57 Chrome T67% indirect F	88
● M58 Chrome T57% indirect F	89
● M60 Chrome indirect	90
● M61 Chrome T25% indirect F	91
● M62 Chrome T50% indirect F	92
● M65 Titane indirect	93
● M67 Chrome T60% indirect F	94
● M68 Chrome T70% indirect F	95
● M69 Palladium T30% indirect F	96
● M125 Gris T57% indirect F	97
● M126 Gris T30% indirect F	98
● M117 Gris T20% direct F	99

Contacts	100
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F = Fumée



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

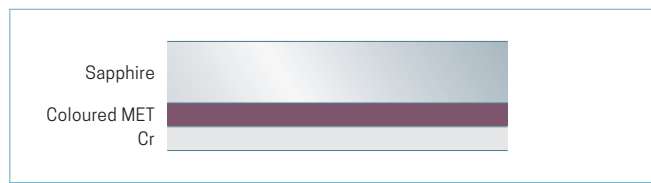
Colorimetry

x	y	Y
0.3484	0.2847	11

Colorimetry with colourless AR

x	y	Y
0.4034	0.2194	4

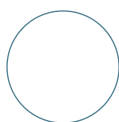
Product structure



Cleaning instructions

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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

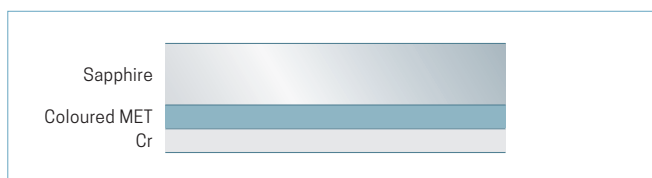
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2880	0.3090	T% 50
		

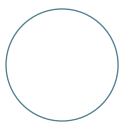
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Sapphire


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●	Sapphire
	Dials
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Visibility

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	From above
	2 sides

Colorimetry

x	y	Y
0.2740	0.2850	17
		

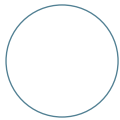
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Sapphire

Application


●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides


Colorimetry

x	y	Y
0.2645	0.2660	9



Colorimetry with colourless AR

x	y	Y
0.1654	0.1178	1.5



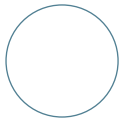
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Sapphire


Application

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	Dials
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Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2539	0.2641	13
		

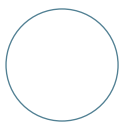
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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2536	0.2513	10
		

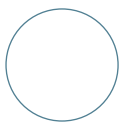
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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

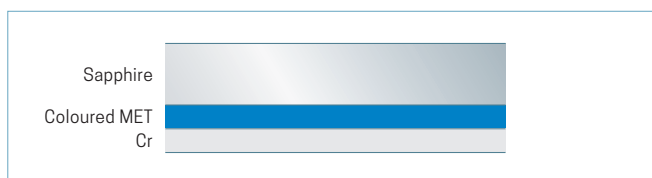
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.1547	0.1332	T% 10

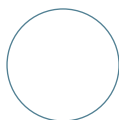
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2539	0.2570	10

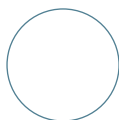
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Sapphire

Application


●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2519	0.2619	13



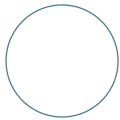
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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

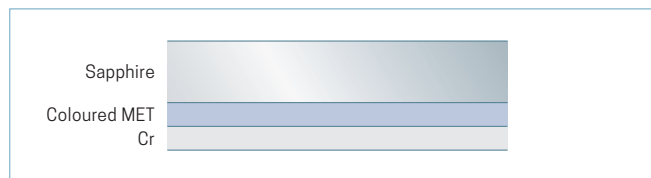
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2885	0.3025	T% 57

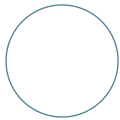
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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3120	0.3221	T% 18
		

Product structure



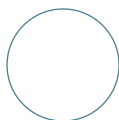
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M101 Bleu direct

Coloured MET



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
●	From above
	2 sides

Colorimetry

x	y	Y
0.2196	0.2386	10

Product structure

Coloured MET	
Cr	
Sapphire	

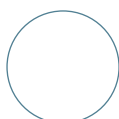
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M107 Bleu indirect

Coloured MET



Sapphire

Application


●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2470	0.2620	13



Product structure



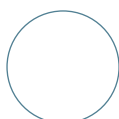
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M119 Bleu T12.5% indirect

MET Fumée Intense



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2205	0.2539	T% 12.7
		

Product structure



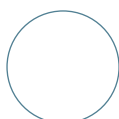
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M124 Bleu T8% indirect

MET Fumée Intense



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.1686	0.1204	T% 8
		

Product structure



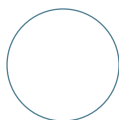
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M135 Bleu T33.4% indirect

MET Fumée Intense



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

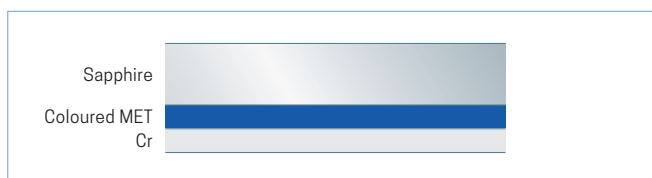
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2366	0.2757	T% 33.4
		

Product structure



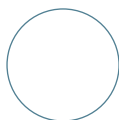
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M142 Bleu T20% indirect

MET Fumée Intense



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

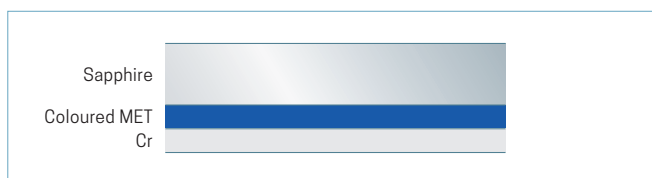
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3494	0.3574	T% 20
		

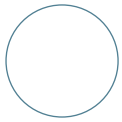
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Sapphire


Application

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	Dials
	FusedSilica

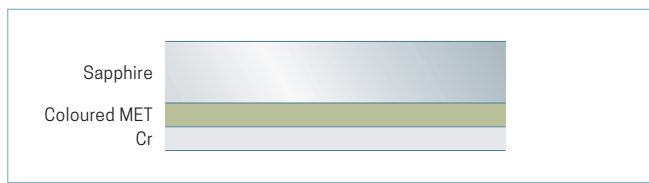
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3380	0.3820	T% 50
		

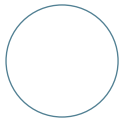
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Sapphire


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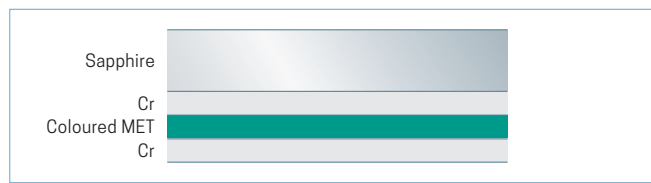
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2462	0.3765	29
		

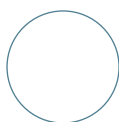
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Sapphire


Application

●	Sapphire
	Dials
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Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2640	0.3540	16
		

Colorimetry with colourless AR

x	y	Y
0.2278	0.4063	11
		

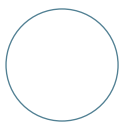
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	Dials
	FusedSilica

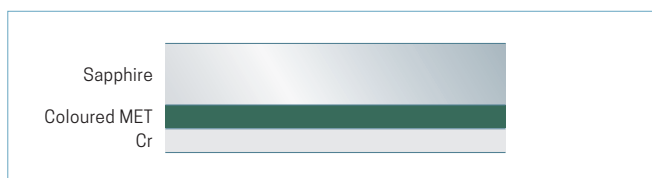
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3180	0.3844	17

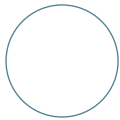
Product structure



Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
- Use one of the following approved cleaning alcohols:
 - Ethanol with 5% isopropyl alcohol (F25-A+IPA), Alcosuisse, Bern
 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

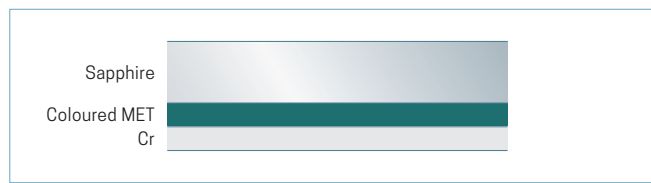
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2894	0.3441	16
		

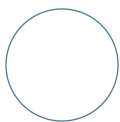
Product structure



Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

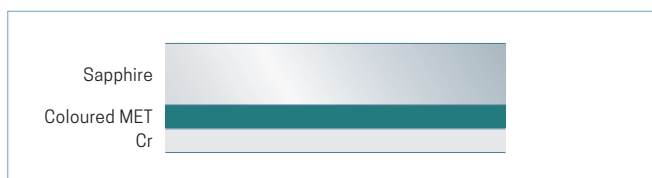
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2802	0.3522	24
		

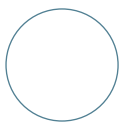
Product structure



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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

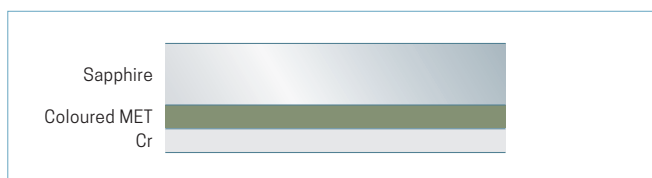
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3350	0.3800	28
		

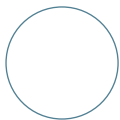
Product structure



Cleaning instructions

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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

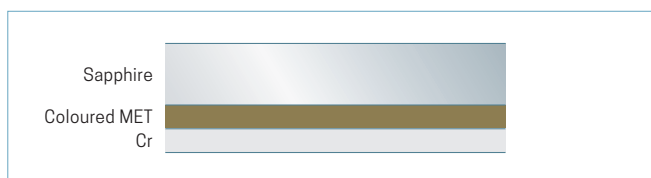
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3926	0.4049	21
		

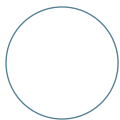
Product structure



Cleaning instructions

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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

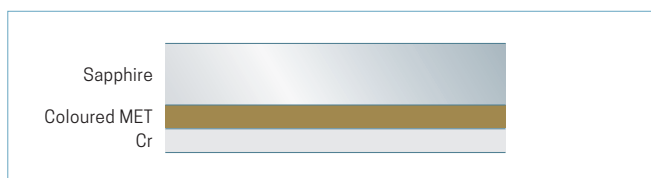
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3965	0.4075	26
		

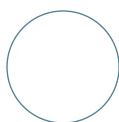
Product structure



Cleaning instructions

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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

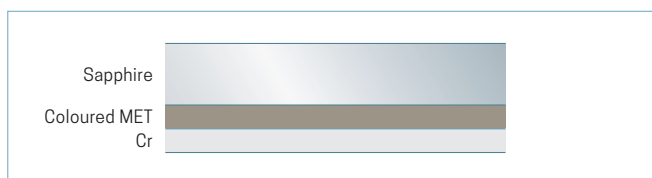
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3368	0.3526	T% 31
		

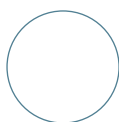
Product structure



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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

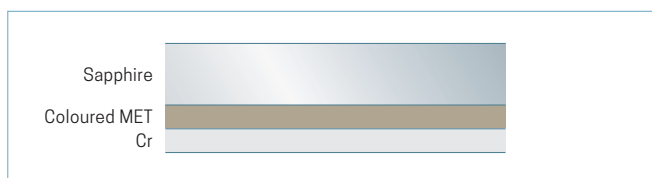
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3410	0.3571	T% 38
		

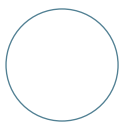
Product structure



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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

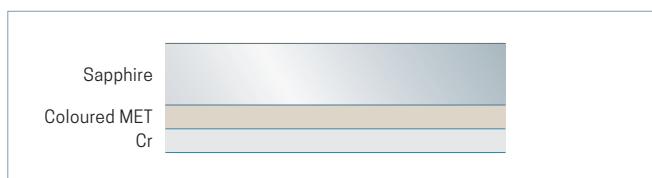
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3279	0.3436	T% 70
		

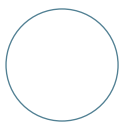
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

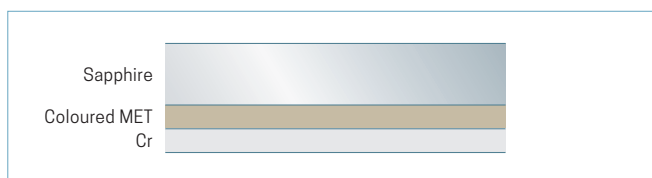
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3450	0.3660	T% 50

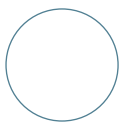
Product structure



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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

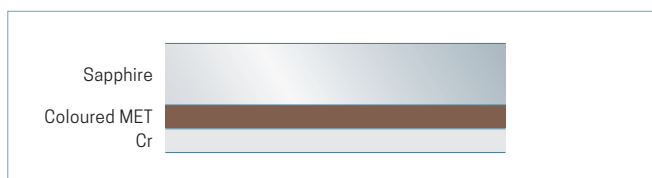
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3821	0.3524	13

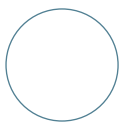
Product structure



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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

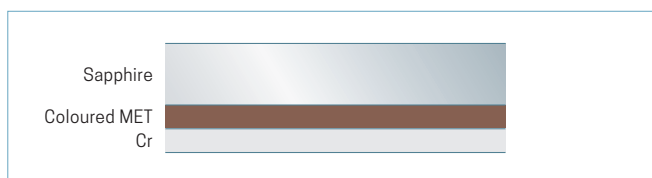
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3873	0.3526	14
		

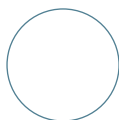
Product structure



Cleaning instructions

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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

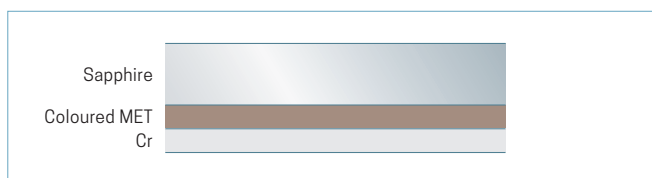
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3645	0.3556	24
		

Product structure



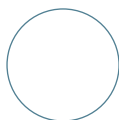
Cleaning instructions

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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG

M122 Brun T9.6% indirect

MET Fumée



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

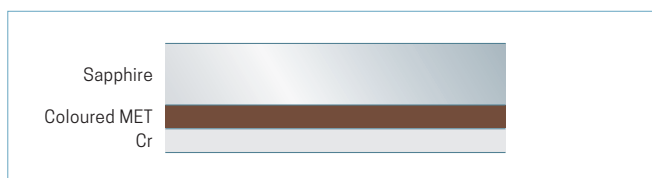
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.4283	0.3737	T% 9.6
		

Product structure



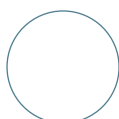
Cleaning instructions

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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG

M136 Brun indirect

Coloured MET



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

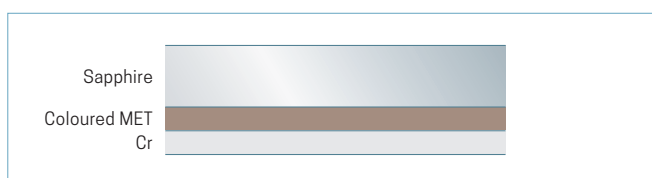
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3432	0.3425	9.3

Product structure



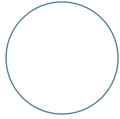
Cleaning instructions

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M139 Aubergine T10% indirect

Coloured MET



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3715	0.3365	T% 10

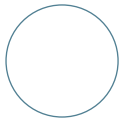
Product structure



Cleaning instructions

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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

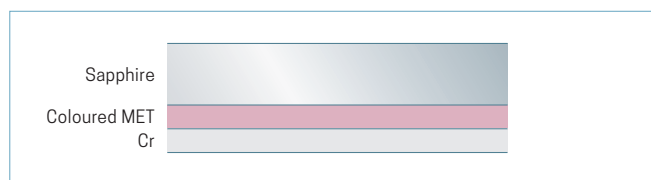
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3383	0.3106	T% 50

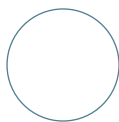
Product structure



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 - Ethanol Absolute A 15 0 (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

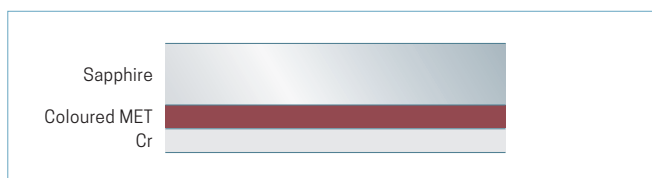
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.4022	0.3211	13
		

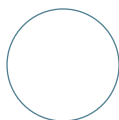
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

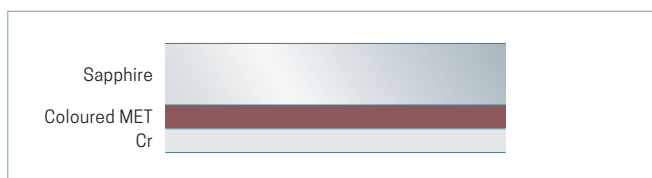
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3805	0.3283	13

Product structure



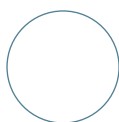
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M100 Bordeaux Pantone indirect

MET Fumée



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica


Visibility

●	Through the sapphire
	From above
	2 sides

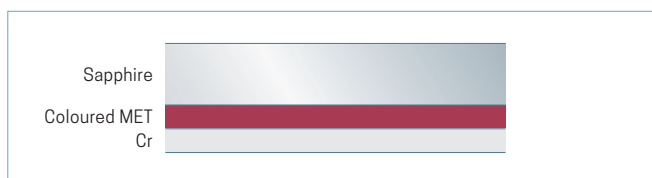
Colorimetry

x	y	Y
0.5028	0.2967	T% 9
		

Colorimetry with colourless AR

x	y	Y
0.5158	0.2995	T% 10
		

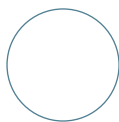
Product structure



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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

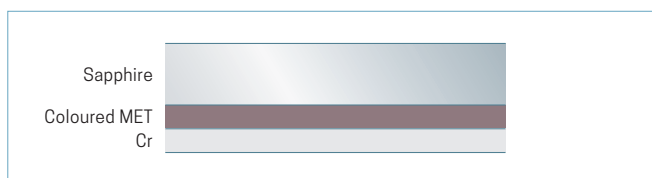
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3288	0.3013	21
		

Product structure



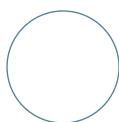
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG

Noir indirect

Coloured MET



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

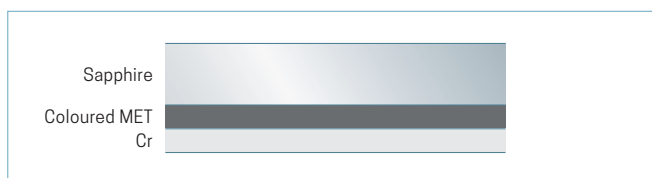
Colorimetry

x	y	Y
0.3130	0.3297	12

Colorimetry with colourless AR

x	y	Y
0.3219	0.3345	5

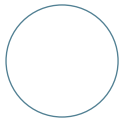
Product structure



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- Use one of the following approved cleaning alcohols:
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3094	0.3244	9

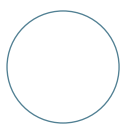
Product structure



Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
- Use one of the following approved cleaning alcohols:
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire + Dial

Application

●	Sapphire
●	Dials
	FusedSilica

Visibility

	Through the sapphire
	From above
●	2 sides

Colorimetry

x	y	Y
0.3130	0.3300	12

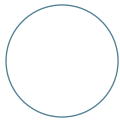
Product structure

Sapphire	
Coloured MET	
Cr	
Coloured MET	

Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
- Use one of the following approved cleaning alcohols:
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 - Ethanol Absolute A 15 0 (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3015	0.3223	12
		

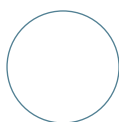
Product structure



Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
●	From above
	2 sides

Colorimetry

x	y	Y
0.3125	0.3280	11

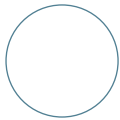
Product structure

Coloured MET	
Cr	
Sapphire	

Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

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- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
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 - Ethanol Absolute A 15 0 (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

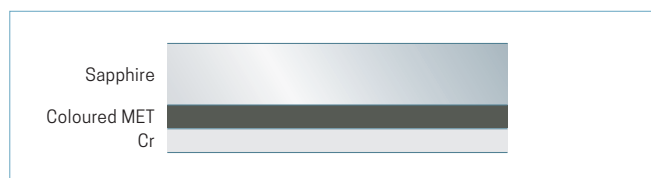
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3273	0.3432	10
		

Product structure



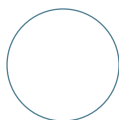
Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG

M123 Noir indirect

Coloured MET



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3010	0.3190	9

Product structure



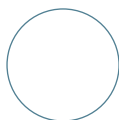
Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG

Anthracite indirect

Coloured MET



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2945	0.3100	19

Colorimetry with colourless AR

x	y	Y
0.2839	0.3	13

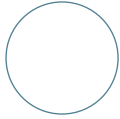
Product structure



Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
●	From above
	2 sides

Colorimetry

x	y	Y
0.3100	0.3270	18

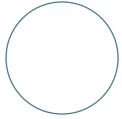
Product structure

Coloured MET	
Cr	
Sapphire	

Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
- Use one of the following approved cleaning alcohols:
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3145	0.3324	18

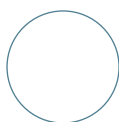
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

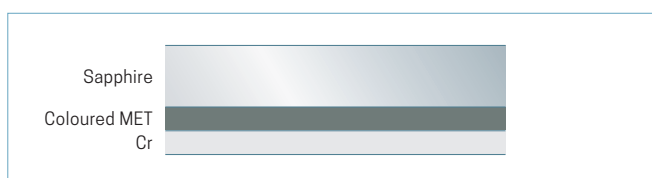
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3142	0.3380	21

Product structure



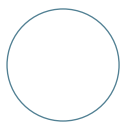
Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG

M108 Anthracite indirect

Coloured MET



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

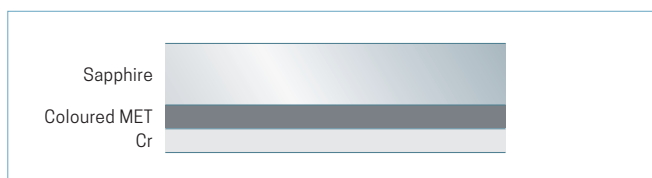
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.2985	0.3133	16

Product structure



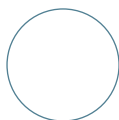
Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG

M130 Anthracite indirect

Coloured MET



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

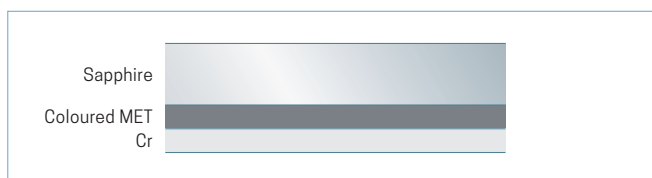
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3026	0.3202	18

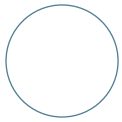
Product structure



Cleaning instructions

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- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3130	0.3327	29

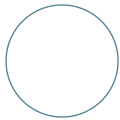
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
	From above
●	2 sides

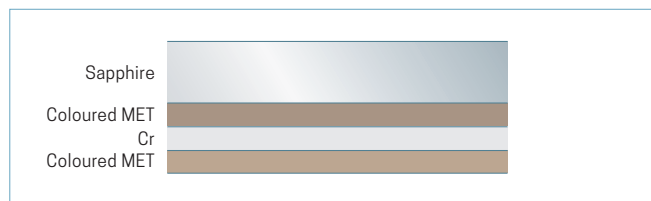
Colorimetry

x	y	Y
atls: 0.359	atls: 0.360	alts: 29

Colorimetry direct

x	y	Y
dld: 0.359	dld: 0.360	dld: 38

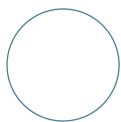
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
●	From above
	2 sides

Colorimetry

x	y	Y
0.3574	0.3709	60

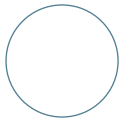
Product structure

Coloured MET	
Cr	
Sapphire	

Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

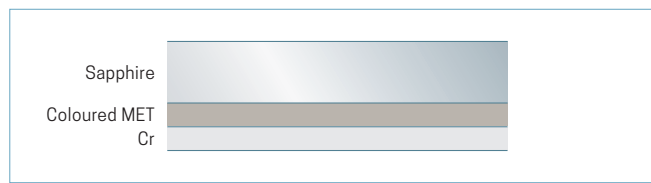
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3320	0.3445	41

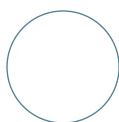
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
●	From above
	2 sides

Colorimetry

x	y	Y
0.359	0.360	38

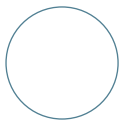
Product structure

Coloured MET	
Cr	
Sapphire	

Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

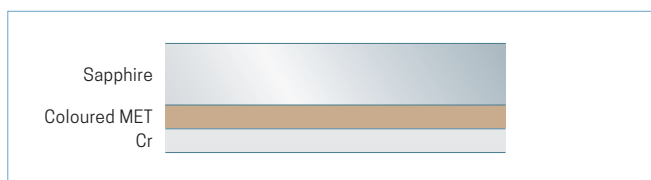
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3682	0.3699	46
		

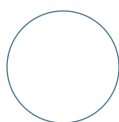
Product structure



Cleaning instructions

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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

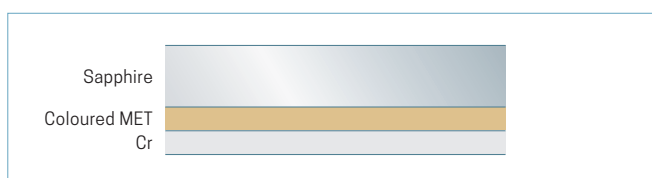
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3845	0.3924	54
		

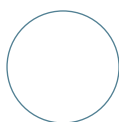
Product structure



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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

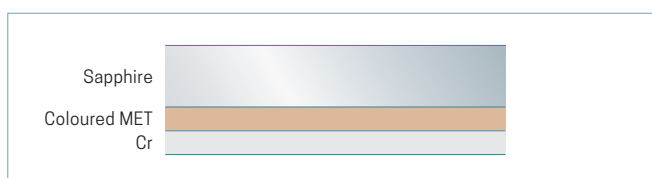
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3706	0.3642	53
		

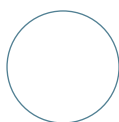
Product structure



Cleaning instructions

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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

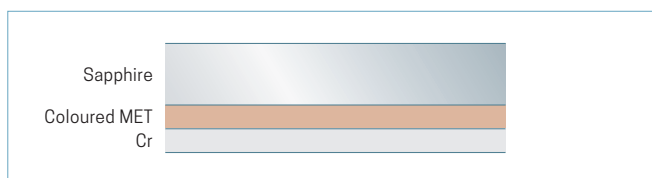
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3697	0.3586	52
		

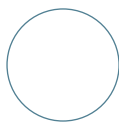
Product structure



Cleaning instructions

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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

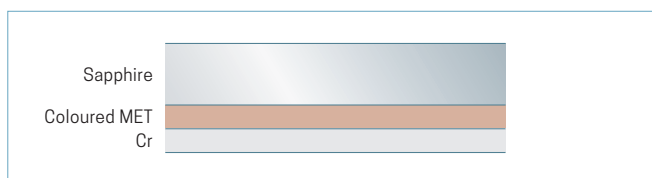
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3630	0.3522	49
		

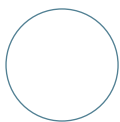
Product structure



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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

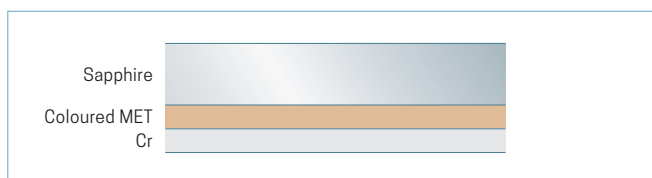
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3733	0.3753	55
		

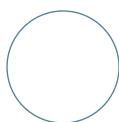
Product structure



Cleaning instructions

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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

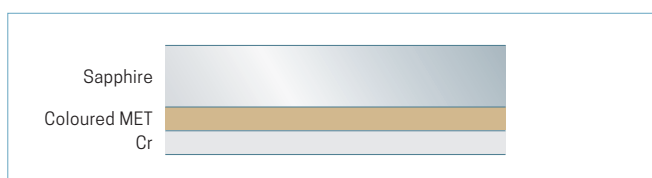
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3720	0.3820	50
		

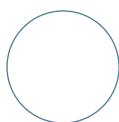
Product structure



Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
- Use one of the following approved cleaning alcohols:
 - Ethanol with 5% isopropyl alcohol (F25-A+IPA), Alcosuisse, Bern
 - Ethanol Absolute A 15 0 (02883), Sigma-Aldrich, Buchs SG



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

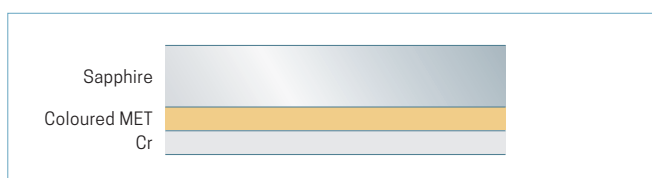
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3965	0.4050	63

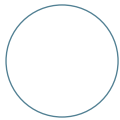
Product structure



Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

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 - Ethanol Absolute A 15 0 (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

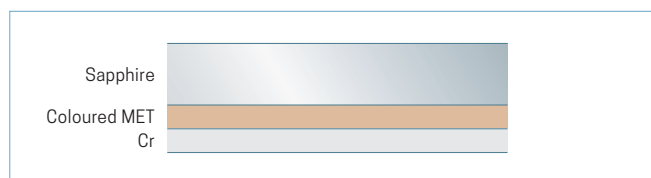
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3690	0.3685	54
		

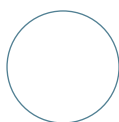
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
●	From above
	2 sides

Colorimetry

x	y	Y
0.3810	0.3959	76

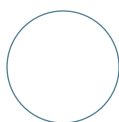
Product structure

Coloured MET	
Cr	
Sapphire	

Cleaning instructions

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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

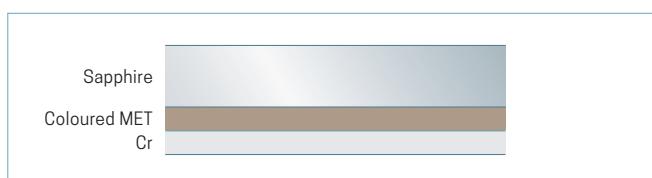
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3590	0.3600	29
		

Product structure



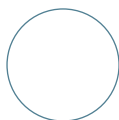
Cleaning instructions

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 - Ethanol Absolute A 15 0 (02883), Sigma-Aldrich, Buchs SG

M118 Au 1N indirect

MET Gold



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

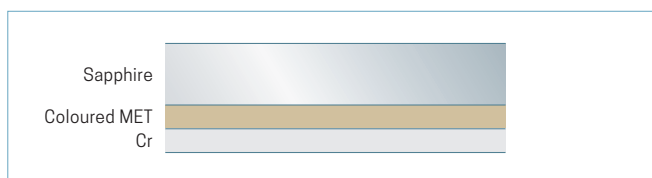
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3532	0.3708	58
		

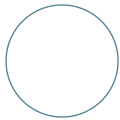
Product structure



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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

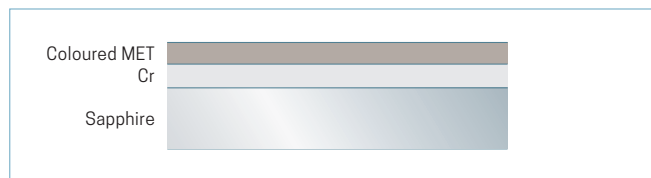
Visibility

	Through the sapphire
●	From above
	2 sides

Colorimetry

x	y	Y
0.3246	0.3403	63
		

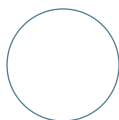
Product structure



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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

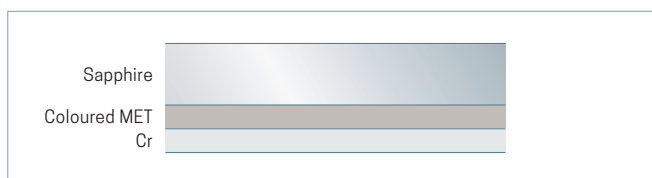
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3222	0.3370	51
		

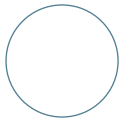
Product structure



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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

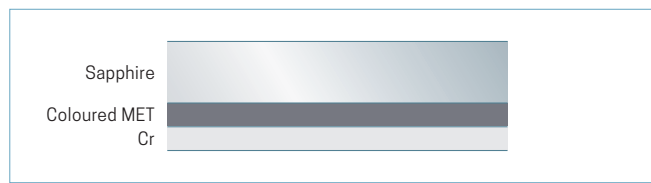
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3115	0.3168	T% 20
		

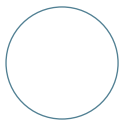
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3117	0.3194	T% 30

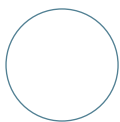
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

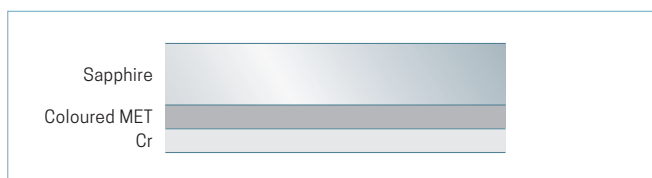
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3100	0.3260	T% 50

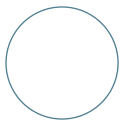
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3060	0.3210	T% 29

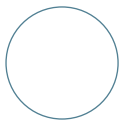
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

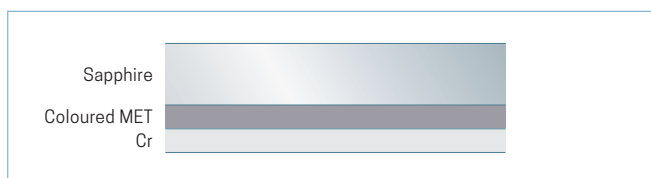
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3110	0.3190	T% 35

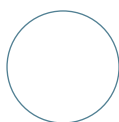
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3110	0.3202	T% 40

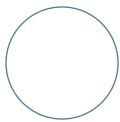
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

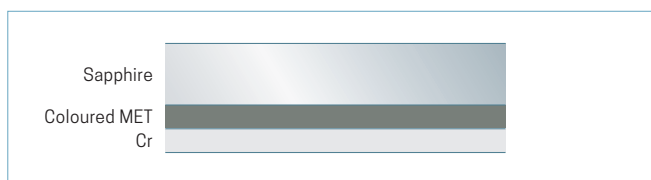
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3200	0.3415	22

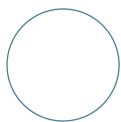
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
	From above
●	2 sides

Colorimetry

x	y	Y
0.318	0.3337	42

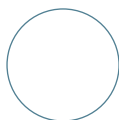
Product structure

Sapphire	
Coloured MET	
Cr	
Coloured MET	

Cleaning instructions

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Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

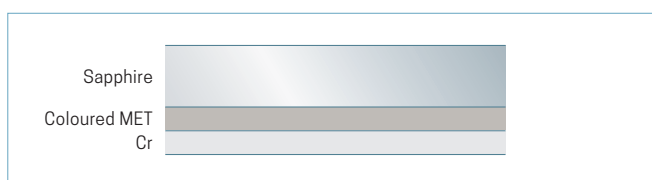
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3226	0.3388	52
		

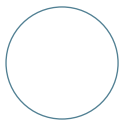
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3140	0.3298	T% 80

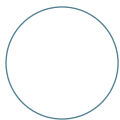
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

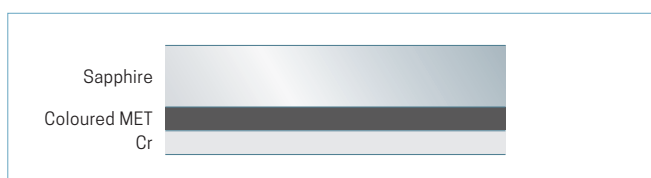
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3239	0.3259	T% 10

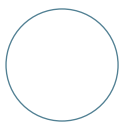
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3130	0.3280	T% 62

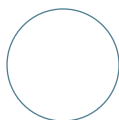
Product structure



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Sapphire

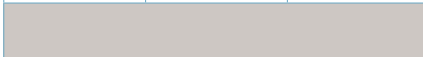
Application

●	Sapphire
	Dials
	FusedSilica

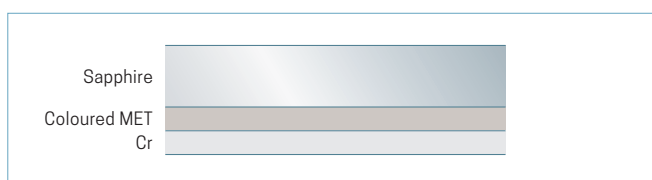
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3220	0.3350	58
		

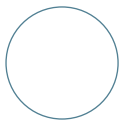
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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

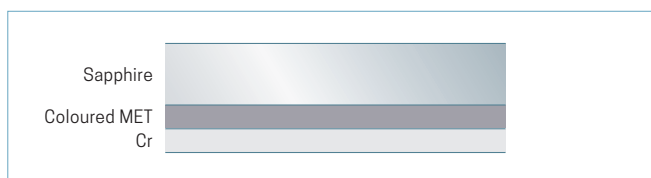
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3110	0.3202	T% 37

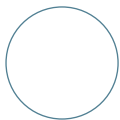
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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3130	0.3280	T% 67

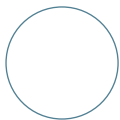
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

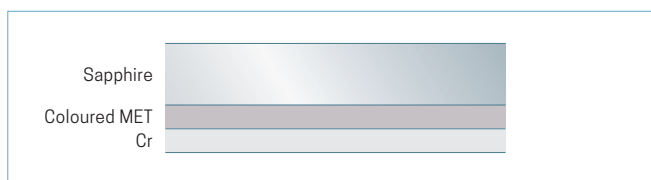
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3124	0.3250	T% 57

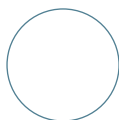
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
	From above
●	2 sides

Colorimetry

x	y	Y
0.3080	0.3267	45

Colorimetry direct

x	y	Y
0.3128	0.3304	54

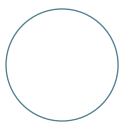
Product structure

Sapphire	
Coloured MET	
Cr	
Coloured MET	

Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

- Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.
- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
- Use one of the following approved cleaning alcohols:
 - Ethanol with 5% isopropyl alcohol (F25-A+IPA), Alcosuisse, Bern
 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3116	0.3182	T% 25

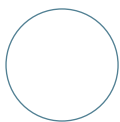
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

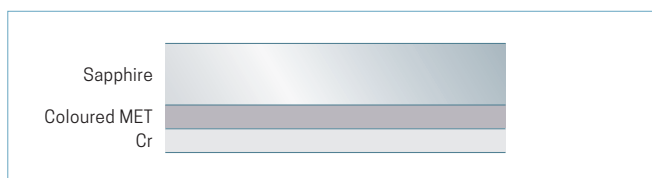
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3123	0.3236	T% 50

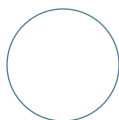
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
	From above
●	2 sides

Colorimetry

x	y	Y
0.3220	0.3364	41

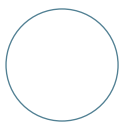
Product structure

Sapphire	
Coloured MET	
Cr	
Coloured MET	

Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

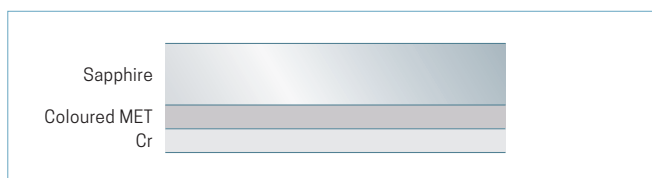
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3125	0.3254	T% 60

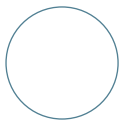
Product structure



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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

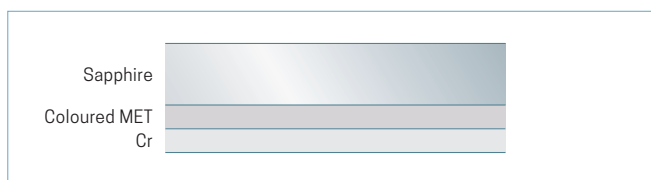
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3127	0.3270	T% 70

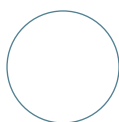
Product structure



Cleaning instructions

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Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3060	0.3210	T% 29

Product structure



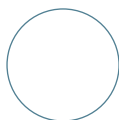
Cleaning instructions

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 - Ethanol Absolute A 15 0 (02883), Sigma-Aldrich, Buchs SG

M125 Gris T57% indirect

MET Fumée



Sapphire

Application

●	Sapphire
	Dials
	FusedSilica

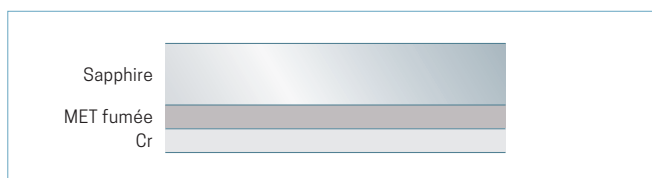
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3152	0.3295	T% 57

Product structure



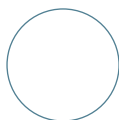
Cleaning instructions

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M126 Gris T30% indirect

MET Fumée



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

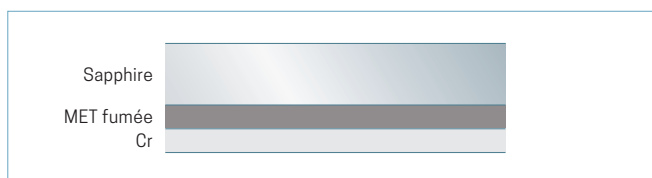
Visibility

●	Through the sapphire
	From above
	2 sides

Colorimetry

x	y	Y
0.3158	0.3258	T% 30
		

Product structure



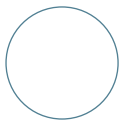
Cleaning instructions

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- Use one of the following approved cleaning alcohols:
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 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG

M117 Gris T20% direct

MET Fumée



Sapphire


Application

●	Sapphire
	Dials
	FusedSilica

Visibility

	Through the sapphire
●	From above
	2 sides

Colorimetry

x	y	Y
0.3210	0.3286	T% 20
		

Product structure

MET fumée	
Cr	
Sapphire	

Cleaning instructions

Please observe the following instructions on how to clean treated glasses:

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- When cleaning by hand, we recommend wearing single-use, powderfree latex gloves and using a lint-free cloth.
- Use one of the following approved cleaning alcohols:
 - Ethanol with 5% isopropyl alcohol (F25-A+IPA), Alcosuisse, Bern
 - Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG

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« De l'innovation naît l'émotion. »

