



GRAZE STAIN

CODE N	IO. / COLOR	COLOR CHART	COMPOSITION	MAX.TEMP	OF/RF	REMARK
PC-5562	Pr.Yellow 镨黄色		Zr-Si-Pr	1,250℃	OF	Suitable for all glazes
No.1349	V.Yellow 钒黄色		Zr-V	1,300℃	OF/RF	Suitable for all glazes
No.1810	C.Pink 粉红色		Zr-Si-Fe	1,250℃	OF	Deep reddish coral color
No.1813	C.Pink 粉红色		Zr-Si-Fe	1,250℃	OF	Standard coral color
No.7555	Maroon 玛瑙色		Sn-Ca-Si-Cr	1,250℃	OF	Deep reddish maroon color
No.7556	Maroon 玛瑙色		Sn-Ca-Si-Cr	1,250℃	OF	Reddish maroon color
No.7557	Maroon 玛瑙色		Sn-Ca-Si-Cr	1,250℃	OF	Deep maroon color
H-320	Sn.Pink 桃红色		Sn-Ca-Si-Cr	1,250℃	OF	Suitable for ZnO,MgO free
AF-2050	Brown 棕色		Al-Fe-Cr-Zn	1,250℃	OF	Suitable for ZnO glaze
AF-2080	Brown 棕色		Al-Fe-Cr-Zn	1,250℃	OF	Suitable for ZnO glaze
FG-1201	Brown 深棕色		Fe-Cr-Zn	1,250℃	OF	Suitable for ZnO glaze
F-23	Sepia 深褐色		Fe-Cr-Zn-Mg	1,250℃	OF	Suitable for ZnO glaze
F-5	Orange 桔红色		Al-Fe-Cr-Zn	1,250℃	OF	Suitable for ZnO glaze,Lime free
-10	Peach 桃色		Al-Cr-Zn	1,250℃	OF	Suitable for ZnO glaze,Lime free
0-8010-2	Red 红色		Zr-Si-Cd-Se	1,320℃	OF/RF	Suitable for all glazes,OF and RI
D-8010-4	Red 红色		Zr-Si-Cd-Se	1,320℃	OF/RF	Suitable for all glazes,OF and RI
(D-8020-2	Orange 桔红色		Zr-Si-Cd-Se	1,320℃	OF/RF	Suitable for all glazes,OF and RI





釉用顔 料

CODE NO. / COLOR		COLOR CHART	COMPOSITION	MAX.TEMP	OF/RF	REMARK	
BS-9311	T.Blue 水青色		Zr-Si-V	1,230℃	OF	Suitable for frit glazes	
N-1301	T.Blue 水青色		Zr-Si-V	1,250℃	OF	Suitable for high temp,glaze	
No.457	Co.Blue 钴蓝色		Co-Si	1,300℃	OF	Suitable for sanitary ware, wall tile	
N-107	Sky Blue 天蓝色		Co-Al-Zn	1,320℃	OF/RF		
F-105	Sky Blue 天蓝色		Co-Al-Zn	1,320℃	OF/RF		
N-3880	Co.Blue 钴蓝色		Co-Cr-Al-Zn	1,320℃	OF/RF		
FG-3	Co.Blue 钴蓝色		Co-Cr-Al-Zn	1,320℃	OF/RF		
F-251	Peacock 孔雀绿		Co-Cr-Al-Zn	1,320℃	OF/RF		
F-100	Peacock 孔雀绿		Co-Cr-Al-Zn	1,320℃	OF/RF		
N-3700	Green 蓝绿色	A SHE	Co-Cr-Al-Zn	1,320℃	OF/RF		
Y-20	Green 绿色		Zr-Si-Ca-Cr-	1,320℃	OF/RF	Suitable for ZnO free	
F-501	Black 钴黑色		Co-Ni-Fe-Cr-Mn	1,320℃	OF/RF		
F-5257	Black 钴黑色		Co-Ni-Fe-Cr-Mn	1,320℃	OF/RF		
ZF-104	Black 钴黑色		Co-Ni-Fe-Cr	1,320℃	OF/RF	Suitable for high temp,glaze	
F-520	Black 黑色		Ni-Fe-Cr-Mn	1,280℃	OF	Suitable for frit glaze	
FM-73	Gray 灰色		Co-Ni-Fe-Cr-Mn-Zr-Si	1,280℃	OF		
F-550	Gray 灰色		Co-Ni-Fe-Cr-Mn-Zr-Si	1,280℃	OF		
F-841	Gray 灰色		Co-Ni-Fe-Cr-Mn-Zr-Si	1,280℃	OF		





BODY STAIN

坯用顔料

CODE NO. / COLOR		COLOR CHART	COMPOSITION	MAX.TEMP	OF / RF	REMARK
F-8905	Mn.Pink 锰红色		Al-Mn	1,320℃	OF/RF	
T-4105	Ti. Yellow 钛黄色		Ti-Sb-Cr	1,280℃	OF	
T-4145	Ti.Yellow 钛黄色		Ti-Sb-Cr	1,280℃	OF	
T-4106	Ti.Orange 钛桔色		Ti-Sb-W-Cr	1,280℃	OF	
T-6800	Ti.Brown 钛桔红色		Ti-W-Cr	1,280℃	OF	
BS-9305	T.Blue 水青色		Zr-Si-V	1,250℃	OF	
N-25	Sky Blue 天蓝色		Al-Co-Mg	1,350℃	OF/RF	
N-2860	Sky Blue 天蓝色		Al-Co	1,350℃	OF/RF	
N-2800	Sky Blue 天蓝色		Al-Co	1,320℃	OF/RF	
N-7004	Green 绿色		Al-Cr	1,320℃	OF/RF	
F-230	Black 黑色		Fe-Cr	1,280℃	OF	
F-8581	Black 黑色		Fe-Cr	1,280℃	OF	
F-8583	Black 黑色		Fe-Cr	1,280℃	OF	
F-850	Black 黑色		Fe-Cr	1,280℃	OF	

QUALITY CONTROL	
Chemical composition	
Color control	
Particle distribution, residue %	
Moisture %	
PH control	
Bulk density	
Solution viscosity	





HIGH SPEED DISPERSIBLE GLAZE STAIN (HSD)

釉用高速混合分散顔料

- 1. Basically, almost all NGY original color Glaze stain can be used on HSD process but there is a few pigment which can not be processed HSD due to physicality and color tone is typical HSD pigment.
- 2. HSD pigment doesn't have deliquescence property, but a bit hygroscopic property, then please avoid to storage subject to high temperature and high humidity. And, once HSD pigment is opened, please use it all for a short period of time.
- 3. HSD pigment is dispersible pigment of water type (glaze slurry). It doesn't have dispersible effect for application of other than water type.

CODE NO. / COLOR

BS-9311	T.Blue	PC-5562	Pr.Yellow	No.1349	V.Yellow	No.1810	C.Pink	No.7555	Maroon
HSD	水青色	HSD	镨黄色	HSD	钒黄色	HSD	粉红色	HSD	玛瑙色
H-320	Sn.Pink	AF-2050	Brown	FG-1201	Brown	F-23	Sepia	D-8010-2	Red
HSD	桃红色	HSD	棕色	HSD	深棕色	HSD	深褐色	HSD	红色
KD-8020-2	Orange	N-107	Sky Blue	N-3880	Co.Blue	F-251	Peacock	N-3700	Green
HSD	桔红色	HSD	天蓝色	HSD	钴蓝色	HSD	孔雀绿	HSD	蓝绿色
F-501 HSD	Black 钴黑色	F-520 HSD	Black 黑色	FM-73 HSD	Gray 灰色				

SCREEN / ROLLER PRINTING STAIN (PS)

印刷用顔料

- 1. Basically, almost all NGY original color Glaze Stain can be used on PS process but there is a few pigment which can not be processed PS due to physicality and color tone is typical PS pigment.
- 2. Specification 325 mesh 100% through
- 3. Please use most suitable printing medium respectively for screen or roller printing.
- 4. In case of use for roller printing, measure printing medium about 60% against base glaze powder and PS pigment 40% and mixed well then recommend to sieve 325 mesh before printing.

CODE NO. / COLOR

BS-9311	T.Blue	PC-5562	Pr.Yellow	No.1349	V.Yellow	No.1810	C.Pink	No.7555	Maroon
PS	水青色	PS	镨黄色	PS	钒黄色	PS	粉红色	PS	玛瑙色
H-320	Sn.Pink	AF-2050	Brown	FG-1201	Brown	F-23	Sepia	D-8010-2	Red
PS	桃红色	PS	棕色	PS	深棕色	PS	深褐色	PS	红色
KD-8020-2	Orange	N-107	Sky Blue	N-3880	Co.Blue	F-251	Peacock	N-3700	Green
PS	桔红色	PS	天蓝色	PS	钴蓝色	PS	孔雀绿	PS	蓝绿色
F-501 PS	Black 钴黑色	F-520 PS	Black 黑色	FM-73 PS	Gray 灰色				

DRY MIXING BODY STAIN (DP)

坯用乾式混合分散顔料

- 1. Basically, all NGY original color Body Stain can be used on DP process but there are a few color of typical DP pigment.
- 2. DP pigment doesn't have deliquescence or hygroscopic property but please avoid stacking if possible while keep in storage in order to maintain effectiveness of surface activity.
- 3. DP pigment is the pigment of eliminating the defect created by surface tension action, etc. of moistness material other many dispersible pigment

CODE NO. / COLOR

F-8905	Mn.Pink	T-4105	Ti.Yellow	T-4145	Ti.Yellow	T-4106	Ti.Orange	T-6800	Ti.Brown
DP	锰红色	DP	钛黄色	DP	钛黄色	DP	钛桔色	DP	钛桔红色
BS-9305	T.Bluue	N-25	Sky Blue	N-2860	Sky Blue	N-2800	Sky Blue	N-7004	Green
DP	水青色	DP	天蓝色	DP	天蓝色	DP	天蓝色	DP	绿色
F-230 DP	Black 黑色	F-8581 DP	Black 黑色	F-8583 DP	Black 黑色	F-850 DP	Black 黑色		





SPECIAL PRE-MIX GLAZE

結晶窯変釉

GLAZE NAME	COLOR CHART		COMPOSITION	GLAZE NAME	COLOR CHART		COMPOSITION
ニッケル青結晶釉 Nickel blue crystalline		0.15KNaO 0.55ZnO 0.05CaO 0.30BaO	:0.22Al2O3:1.5SiO2	海鼠窯変釉 Namako reactive		0.17KNaO 0.53CaO 0.15MgO 0.15BaO	:0.30Al2O3:3.5SiO2
ニッケルピンク結晶釉 Nickel pink crystalline		0.10KNaO 0.40ZnO 0.10CaO 0.40BaO	:0.16Al2O3:1.4SiO2	朱金地結晶釉 Shukinji crystalline		0.20KNaO 0.60CaO 0.20MgO	:0.20Al2O3:2.6SiO2
黒天目窯変釉 Kurotenmoku reactive		0.40KNaO 0.50CaO 0.10MgO	:0.50Al2O3:6.0SiO2	鉄赤結晶釉 Tetsuaka crystalline		0.40KNaO 0.25CaO 0.35MgO	:0.55Al2O3:5.0SiO2
油滴天目窯変釉 Yutekitenmoku reactive		0.49KNaO 0.25CaO 0.26MgO	:0.60Al2O3:5.0SiO2	蕎麦窯変釉 Mugi reactive		0.30KNaO 0.50CaO 0.20MgO	:0.45Al2O3:5.0SiO2
飴窯変釉 Ame reactive		0.20KNaO 0.60ZnO 0.20SrO	:0.25Al2O3:3.5SiO2	鉄砂・斑紋窯変釉 Tessha・Hanmon reactive		0.20KNaO 0.50CaO 0.30BaO	:0.55Al2O3:4.5SiO2
黄瀬戸窯変釉 Kizeto reactiive		0.08KNaO 0.85CaO 0.07MgO	:0.09Al2O3:1.53SiO2	銀賦結晶釉 Ginnezu crystalline		0.11KNaO 0.10CaO 0.08PbO 0.71MnO	:0.35Al2O3:3.0SiO2
伊羅保結晶釉 Irabo crystalline		0.05KNaO 0.95CaO	:0.45Al2O3:2.0SiO2	ラスター彩結晶釉 Luster crystalline		0.15KNaO 0.50PbO 0.35ZnO	:0.30Al2O3:1.5SiO2

BASIC	OXIDE	NEUTRAL OXIDE	ACIDIC OXIDE
R20	RO	R203	RO2
Example of oxide Li20 No20 K20 KN00 There is a lot of case shown as KNaO by bonding Na2O and K2O	MgO CaO SrO BaO ZnO	Al203	\$102
ALKALIS (It is also said simply as ALI	ALKALINE EARTH KALIS by bonding these two)	ALUMINA	SILICA

Character of KNaO···KNaO(potassium·sodium) makes glaze glass by reacting with SiO2. If KNaO is increased, glaze tend to be translucent or opaque like Shino glaze. The status of fuse tend to be voluminous because of high viscosity. It is easily gets cracking because of high coefficient of expansion.

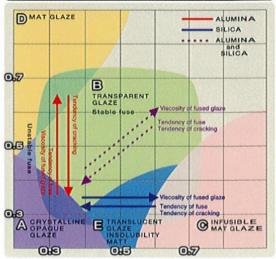
viscosity. It is easily gots cracking because of high coefficient of expansion.

Character of MgO···II MgO (magnesium) is increased, crystal of diopside tend to be separated out. If cool slow, it become opaque by crystallization. If A zone temperature is kept for a while during cooling process, it become big crystalline glaze. It also become prevention of cracking. Ash glaze is typical MgO glaze.

Character of CaO···CaO (calcium) is present in worldwide and become element of glaze. If add other type of alkali,

Character of CaO···CaO (calcium) is present in worldwide and become element of glaze. If add other type of alkali, it can be prevent trouble easily by replacing with CaO.It is a base for Ash glaze as contains much more ingredient. Character of BaO··It is easily fused if BaO (barium) is increased. But it is easily gets cracking. It makes Light Celadon blue. It makes Cinnabar deep red. It is imperative for Turkish Blue glaze. It can be made matt in D zone. Character of ZnO··It is used as low temperature glaze in oxidized firing. It is tend to become opaque glaze, translucent glaze and crystalline glaze in A zone but runny. It is starting to fuse early on in B zone, and easy to use while firing zone is wide since fused slow.

MAIN CHARACTER AND ROLE OF EACH OXIDE IN SEGEL FORMULA Role of alumina and silica









TEL: 0572-53-1098 FAX: 0572-55-5847 E-mail: support@misaka-mining.com