

REFERENCES	DESCRIPTION	APPLICATION	THERMAL EXPANSION COEFFICIENT [10 ⁻⁷ °C ⁻¹] 30-300°C	RANGE OF TEMPERATURES	REMARKS
GLOSSY WHITE GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
OPAQUE GLAZE PR-115	Glossy White Glaze, suitable for use on white and red bodies, pottery and coloured bodies. Its low thermal expansion coefficient adapts to different types of standard bodies.	Application methods: immersion, spraying, slip-trail for the "Cuerda Seca" technique and bell-shaped application. It can be coloured with our "P" Series Pigments, bearing in mind they contain Zirconium oxide and Zinc. The "CD Series" of colours can be used for decoration. To colour it with natural oxides and firing at temperatures higher than 1080°C, an initial test should be carried out, since the outcome will depend on the body used.	55-60	980°C-1260°C	For brush application, we recommend our Glaze EOSP-00 OPAQUE WHITE SUSPENSION.
ANCIENT WHITE GLAZE 5894	Glossy White Semi-Opaque Glaze, suitable for use on white, red coloured bodies. Depending on the glaze's thickness, the clay body colour may still be seen, allowing for an Ancient White result similar to glazes from the 18th century.	Application methods: immersion, spraying, bell-shaped. It can be coloured with our "P" Series Pigments, bearing in mind they contain Zirconium oxide and Zinc. The "CD Series" of colours can be used for decorating. It is recommended to carry out an initial test for colouring with natural oxides and firing cycles over 1080°C, since the outcome will depend on the body used.	58-63	980°C-1150°C	For brush application, we recommend our Glaze EOSP-01 ANCIENT WHITE SUSPENSION.
WHITE BASE GLAZE PR-120-BB	Opaque Semi-Glossy Glaze, for use as base engobe on red clay to layer over very glossy clear glazes. It can be used in single firing by adding 5% Monocol V. We recommend adjust the viscosity, if needed, by using Deflocculant No. 7.	Application methods: immersion, spraying, bell-shaped . It can be coloured with our "P" Series Pigments, bearing in mind that, due to their compositions, pastel tones will be achieved. For firing cycles over 1080°C, it is recommended to carry out an initial test, since the outcome will depend on the body used.	67-71	980°C-1150°C	

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GLOSSY WHITE GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
WHITE GLAZE PR-6303/F	Glossy White Glaze, suitable for use on white and red clay bodies, pottery and coloured bodies. Its low thermal expansion coefficient adapts to different types of standard bodies.	Application methods: immersion, spraying, slip-trail for "Cuerda Seca" technique and bell-shaped application. It can be coloured with our "P" Series Pigments, bearing in mind they contain Zirconium oxide. The "CD Series" of colours can be used for decorating. It is recommended to carry out an initial test for colouring with natural oxides and firing cycles over 1080 °C, since the outcome will depend on the body used.	56-62	980°C-1260°C	
WHITE GLAZE 5889	Glossy White Glaze suitable for use on white and red bodies, pottery and coloured bodies. Its low thermal expansion coefficient adapts to different types of standard bodies.	Application methods: immersion, spraying, slip-trail for "Cuerda Seca" technique and bell-shaped application. It can be coloured with our "P" Series Pigments, bearing in mind it contains Zirconium oxide. The "CD Series" of colours can be used for decorating. It is recommended to carry out an initial test for colouring with natural oxides and firing cycles over 1080 °C, since the outcome will depend on the body used.	59-64	980°C-1260°C	
WHITE GLAZE PR-112	Glossy White Glaze suitable for use on white and red bodies, pottery and coloured bodies. Its low thermal expansion coefficient adapts to different types of standard bodies.	Application methods: immersion, spraying, and bell-shaped. It can be coloured with our "P" Series Pigments, bearing in mind it contains Zirconium oxide and Zinc. The "CD Series" of colours can be used for decorating. It is recommended to carry out an initial test for colouring with natural oxides and firing cycles at 1260°C.	54-57	1050°C-1260°C	Glaze similar to product PR-115, but with a higher melting point, therefore recommended minimum temperature is 1050°C.

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GLOSSY WHITE GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
OPAQUE WHITE GLAZE M-5148	Glossy White Glaze, suitable for use on terracotta bodies due to its high thermal expansion coefficient. It can be used as a coefficient corrector for white glazes if the glaze peels off, thus maintaining its opacity.	Application methods: immersion, spraying, bell-shaped . It can be coloured with our "P" Series Pigments, bearing in mind it contains Zirconium oxide and Zinc oxide. It is recommended to carry out an initial test for firing cycles over 1080 °C, since the outcome will depend on the body used.	68-73	980°C-1150°C	
WHITE CRACKLED GLAZE 5895	White Crackled Glossy Glaze suitable for use on white and red bodies, pottery and coloured bodies.	Application methods: immersion, spraying, bell-shaped . It can be coloured with our "P" Series Pigments to obtain a good colour yield. The "CD Series" of colours can be used for decorating. It is recommended to carry out an initial test for colouring with natural oxides. Depending on the coat of glaze on the piece, the body's original tone may be seen.	88-93	930°C-980°C	For brush application, we recommend our Glaze EESP-00 WHITE CRACKLED SUSPENSION.
MATTE WHITE GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
MATTE WHITE GLAZE PR-20/N	Matte White Glaze suitable for use on white , terracotta and red bodies, pottery and coloured bodies.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments, bearing in mind it contains Zirconium oxide and Zinc. The "CD Series" of colours can be used for decorating. It is recommended to carry out an initial test for colouring with natural oxides and firing cycles over 1080°C, since the outcome will depend on the body used.	65-69	980°C-1080°C	It can be used for higher temperatures as a component for creating high-temperature glazes.

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MATTE WHITE GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
MATTE WHITE GLAZE 5880	Matte White Glaze suitable for use on white and red body, pottery and coloured body.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments, bearing in mind it contains Zirconium oxide and Zinc. The "CD Series" of colours can be used for decorating. It is recommended to carry out an initial test for colouring with natural oxides and firing cycles over 1080°C, since the outcome will depend on the body used.	60-65	980°C-1080°C	It can be used for higher temperatures as a component for creating high-temperature glazes.
GLOSSY CLEAR GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
TRANSPARENT GLAZE PR-500	Clear Glossy Glaze, designed for traditional pottery bodies and also for coloured bodies or earthenware. Due to its low thermal expansion coefficient, it is especially suitable for culinary pieces, as the glaze is crack-resistant. Suitable for single firing.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments to obtain a good colour yield, especially with very bright colours. It can be used to decorate by paintbrush or under-glaze printing with our series of Decorative Coloured Oxides from the "CD" Series. It is recommended to carry out an initial test for firing cycles over 1020°C.	50-55	930°C-1050°C	When fired on pottery bodies above 1020°C, it may give more yellowish tones.
TRANSPARENT GLAZE PR-1430	Clear Glossy Glaze, designed for traditional pottery bodies and also for coloured bodies or earthenware. Due to its low thermal expansion coefficient, it is especially suitable for culinary pieces, as the glaze is crack-resistant. Suitable for single firing.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments to obtain a good colour yield, especially with very bright colours. It can be used to decorate by paintbrush or under-glaze printing with our series of Decorative Coloured Oxides from the "CD" Series. It is recommended to carry out an initial test for firing cycles over 1020°C.	50-55	930°C-1050°C	When fired on earthenware bodies above 1020°C, it may give more yellowish tones.

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GLOSSY CLEAR GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
TRANSPARENT GLAZE F-15	Clear Glossy Glaze, suitable for use on white, red and coloured bodies. It can be used as a flux in order to add decorative colours, using a paintbrush or printing.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments to obtain a good colour yield, especially with very bright colours. It can be used to decorate by paintbrush or under-glaze printing with our series of Decorative Coloured Oxides from the "CD" Series.	69-73	980°C-1260°C	It is the glaze base of our ETSP Colour Series as a glaze, and from the "CD" Series as a flux for decoration.
TRANSPARENT GLAZE 5460/F	Clear Glossy Glaze, suitable for use on white, red and coloured bodies, and can be fired at low or high temperatures.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments to obtain a good colour yield, especially with very bright colours. The "CD Series" of colours can be used for brush or screen-printing under-glaze decoration.	60-64	980°C-1260°C	For brush application, we recommend our Glaze ETSP-01 SUSPENSION.
TRANSPARENT GLAZE NS-20-M	Clear Glossy Glaze, suitable for use on earthenware bodies with a high thermal expansion coefficient. For red and terracotta bodies, the colour usually fades to pink tones. To check how the glaze may crack on the piece, an initial test is recommended.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments to obtain a good colour yield with red and pink colours, but black, blue and brown colours are rendered distorted. Our "CD Series " of Decorative Coloured Oxides can be used for brush or screen-printing under-glaze decoration.	64-67	980°C-1150°C	It can be used for higher temperatures as a component for creating high-temperature glazes.

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GLOSSY CLEAR GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
CRYSTAL TRANSPARENT GLAZE 3110	Glaze with alkaline composition, very shiny and with a low melting point and a high thermal expansion coefficient.	It is designed to be used in formulations at high temperature in order to achieve the crystallising effects, as combined with glazes with a high Zinc content.	98-100	980°C-1260°C	This glaze requires prior testing for any type of use in a formula.
TRANSPARENT CRACKLED GLAZE CQ-003	Clear Glossy Crackled Glaze, very alkaline in composition with a high percentage of boron, and a low melting point. This can be used on both white and red bodies which will not be used as dinnerware, due to increased cracking on the piece. Recommended for Raku and Metallic Reflect techniques.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with the Metallic Natural Colour Series, such as with Iron, Manganese and Copper oxides, with Copper obtaining the typical turquoise tones.	100-110	800°C-980°C	It can be used for higher temperatures as a component for creating high-temperature glazes.
TRANSPARENT CRACKLED GLAZE CQ-004	Clear Alkaline Glossy Crackled Glaze. Designed for use on white bodies and for under-glaze decorating. Not recommended for dinnerware pieces because of its crackled effect. It can be used as a coefficient correction glaze if the glaze peels.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments, with an initial test carried out with different colour percentages. For decoration, the "CD Series" of Decorative Coloured Oxides can be used brushing or screen-printing under-glaze decoration.	98-105	980°C-1150°C	For brush application, we recommend our Glaze ETSP-03.

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GLOSSY CLEAR GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
TRANSPARENT CRACKLED GLAZE PR-1000/N	Clear Glaze with Boron and Calcium, to be used in formulas to lower the melting point or to add Boron to the formula. Flux for engobes with low thermal expansion coefficient.	For use in high-temperature compositions and to achieve effects and even correct defects by lowering the melting point. Any addition to the formula requires prior testing.	84-86	850°C-1000°C	
TRANSPARENT GLAZE PR-70/N	Clear Glossy Glaze, suitable for glazing white, red and terracotta bodies with a high thermal expansion coefficient, both low and high temperature firing. Adapted for single firing.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments. For decoration, the "CD Series" of Decorative Coloured Oxides can be used for brush or under-glaze screen-printing decoration.	74-77	980°C-1150°C	Required to carry out a prior test for any temperature above 1080°C.
TRANSPARENT GLAZE PR-14	Clear Glossy Glaze, with a very low thermal expansion coefficient. Recommended for special, refractory bodies with a low thermal expansion coefficient. It is suitable for adding to low and medium temperature glazes that may crack.	Application methods: immersion, spraying, and bell-shaped application. It can be coloured with our "P" Series Pigments. A prior test is always recommended on the body and temperature to be used, since the outcome will depend on those characteristics.	40-45	1100°C-1260°C	If used as the only glaze, peeling of the glaze may occur on the piece after firing.
CLEAR MATTE GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
TRANSPARENT MATTE GLAZE PR-17	Clear Matte Glaze, suitable for use on white bodies. For red, terracotta and coloured bodies, an initial test is first recommended, because the result of the colour of the bodies may vary depending on the thickness of the application.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments, bearing in mind it contains Zinc oxide. The "CD Series" of colours can be used for decoration. Carrying out a prior test is recommended for colouring with natural oxides and firing cycles over 1080 °C, since the outcome will depend on the body used.	70-75	980°C-1080°C	It can be used for higher temperatures as a component for creating high-temperature glazes.

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CLEAR MATTE GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION					
TRANSPARENT MATTE GLAZE 5888	Clear Matte Glaze, suitable for use on white bodies. For red, terracotta and coloured bodies, an initial test is first recommended, because the result of the colour of the bodies may vary depending on the thickness of the application.	Application methods: immersion, spraying, bell-shaped application. It can be coloured with our "P" Series Pigments, bearing in mind it contains Zinc oxide. The "CD Series" of colours can be used for decoration. Carrying out a prior test is recommended for colouring with natural oxides and firing cycles over 1080 °C, since the outcome will depend on the body used.	65-69	980°C-1080°C	It can be used for higher temperatures as a component for creating high-temperature glazes.

GENERAL RECOMMENDATIONS FOR CLEAR AND WHITE GLAZES FORMULATED WITHOUT LEAD IN THEIR COMPOSITION

- 1 Our "CD Series" of overglaze and underglaze colours are recommended for decorating ceramic kitchenware pieces.
- 2 The colouring of any of these glazes with natural colouring oxides such as Copper oxide, Manganese oxide, Iron oxide, etc. requires prior testing with different percentages of colour.
- 3 All of these glazes can be adapted to the different glazing processes whether at a craft, hobby or industrial production level. In each case, the density and viscosity adjustment of the glaze can be adapted to the glazing process with the appropriate use of the usual additives: Suspensive, Deflocculant No. 7 and Monocol V.
- 4 For the single-fire glazing method, we recommend adding 5% Monocol V so that there is good adhesion of the glaze to the piece both in its raw state and during firing. It is always necessary to carry out previous tests with the body to be used, the appropriate density and viscosity of the glaze, the drying time of the piece before placing it in the kiln and the temperature and firing cycle.
- 5 The engobes recommended for these clear and white glazes are ENSP-00 as a base and ENSP-01 White.
- 6 For further information visit our web www.prodesco.es or send an email to: departamentotecnico@prodesco.es