



PRN Black high temperature grogged body (1200°-1260°C)

Description and properties

Black high temperature grogged body. Designed for artistic ceramics. It bears 40% grog, which texture, from fine to coarse, confers expression possibilities and an excellent behaviour during drying and firing. Its high plasticity gives optimum properties for modelling. Its beautiful and intense black firing colour in oxidising atmosphere is very exclusive and becomes an ideal artistic mean of expression. In reducing atmosphere, metallic effects with shades of blue are obtained. It is wide used for murals and sculpture.

Range and supplying form

Ref.	Water content % approx.	Description	Consistency*		Supplying form
			Tip mm	kg	
PRNI*E	21	Black high temperature body (grog 0-0.2 mm)	20	3.5 – 4.5	Wrapped units = 12.5 kg 1 pallet = 96 units = 1200 kg
PRNF*E	21	Black high temperature body (grog 0-0.5 mm)	20	3.5 – 4.5	Wrapped units = 12.5 kg 1 pallet = 96 units = 1200 kg
PRNM*E	21	Black high temperature body (grog 0-2 mm)	20	3.5 – 4.5	Wrapped units = 12.5 kg 1 pallet = 96 units = 1200 kg
PRNG*E	21	Black high temperature body (grog 1-3 mm)	20	3.5 – 4.5	Wrapped units = 12.5 kg 1 pallet = 96 units = 1200 kg

* Extrusion consistency

Technical data

Chemical Analysis %											Plasticity (Atterberg)		CaCO ₃ %
SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	Na ₂ O	K ₂ O	MnO	MnO ₂	L.O.I	L.L.	I.P.	
41.62	30.17	13.86	1.49	0.28	0.62	0.22	1.37	0.36	2.79	7.37	41	22	0

Green and drying data			Firing data						Coefficient of thermal expansion x10 ⁻⁷ °C ⁻¹			
Water content %	Drying shrinkage %	Dry strength N/mm ²	Grog size	Temperature °C	Loss on ignition %	Water absorption %	Firing shrinkage %	Fired strength N/mm ² (1260°C)	α25-300	α300-500	α500-650	α25-650
21	7.0	4.2	I	1200 1240 [▲]	6.5 6.8	2.5 1.3	5.3 7.1	45.8	49.6	53.1	59.6	53.1
		5.9	F	1200 1260	6.6 6.8	8.1 9.4	2.9 4.5	33.7	56.4	55.0	58.0	64.8
		5.0	M	1200 1260	6.7 6.7	10.2 9.8	3.7 3.6	31.6	57.8	57.4	74.2	61.6
		2.6	G	1200 1260	7.1 7.1	7.0 6.9	4.0 3.6	14.9	50.1	53.0	59.8	53.4

The specified data is only an indication, stemming from the analysis of the characterization of representative samples, and from routine production averages. Product characteristics are subject to modifications.