

Chemical properties



CHEMICAL PROPERTIES (DRY PRODUCT)

	Vesco Prima	Vesco Granitic	Vesco Technic 1	Vesco Ceramic 1	Vesco Ceramic	Vesco Technic 2	Vesco Technic 3	DN-0	DN-1	DN-2
Al ₂ O ₃ , %	28.00 (+/-0.50)	26.50 (+/-0.5)	26.00 (+/-0.5)	23.50 (+/-0.5)	22.00 (+/-0.5)	22.00 (+/-0.5)	16.50 (+/-0.5)	31.50 (+/-0.5)	30.00 (+/-0.5)	28.00 (+/-0.5)
Fe ₂ O ₃ , %	0.85 (+/-0.1)	0.90 (+/-0.1)	1.80 (+/-0.1)	1.25 (+/-0.1)	1.10 (+/-0.1)	1.80 (+/-0.1)	0.80 (+/-0.1)	1.00 (+/-0.1)	1.20 (+/-0.1)	1.20 (+/-0.1)
TiO ₂ , %	1.25 (+/-0.1)	1.40 (+/-0.2)	1.50 (+/-0.2)	1.40 (+/-0.2)	1.50 (+/-0.2)	1.50 (+/-0.2)	1.35 (+/-0.2)	1.50 (+/-0.2)	1.50 (+/-0.2)	1.40 (+/-0.2)
SiO ₂ , average	57.00	60.00	60.50	63.50	65.00	65.00	71.00	52.00	55.00	57.40
K ₂ O, average	1.90	2.20	2.20	2.20	2.30	2.20	1.80	1.90	1.80	2.00
Na ₂ O, average	0.30	0.40	0.40	0.40	0.40	0.40	0.30	0.30	0.30	0.40
CaO, average	0.40	0.40	0.40	0.30	0.40	0.30	0.30	0.40	0.40	0.40
MgO, average	0.60	0.60	0.60	0.50	0.60	0.50	0.50	0.50	0.50	0.50
SO ₃ , average	0.05	0.08	0.05	0.04	0.05	0.06	0.06	0.12	0.11	0.11

CERAMIC PROPERTIES AFTER FIRING AT 1200 DEG

Loss of ignition, %	8.50	7.60	7.70	6.90	6.40	6.20	4.70	10.10	9.50	8.50
Shrinkage, %	11.40	10.00	9.80	9.26	8.30	8.60	5.60	12.80	12.30	10.90
Water absorption, %	0.10	0.10	0.10	0.10	0.20	0.10	2.70	0.10	0.20	0.20
L (lightness), average	79.00	76.00	65.00	69.00	72.00	61.00	71.00	81.00	80.00	76.00
A (red/green), %	2.40	3.00	3.90	3.90	3.50	5.50	4.30	1.70	2.20	2.70
B, (yellow/blue), %	14.10	15.20	17.10	17.50	17.20	19.30	20.40	12.30	13.00	14.70
Green MOR, kg/cm ²	14.80	14.50	13.20	13.30	12.70	12.60	14.00	13.90	12.70	13.00
Dry MOR, kg/cm ²	36.90	40.50	41.30	41.20	42.90	40.50	32.80	34.90	34.00	37.20
Fired MOR, kg/cm ²	520.00	490.00	490.00	480.00	470.00	480.00	375.40	480.00	485.00	480.00
Sieve residue 0.063	1.10	3.00	3.00	4.00	5.00	5.00	8.00	0.80	1.50	2.00