

## CHEMICAL CONTENT (%):

PLACE OF PRODUCTION	BALIKESİR				BİLECİK			
PRODUCT CODE	KN-401	KN-402	KN2-18	KN2-18-D5	KN2-22	KN2-22-D5	KN2-25	KN2-25-D5
SiO <sub>2</sub>	67,00 ± 2,00	67,00 ± 2,00	73,40 ± 0,40	73,40 ± 0,40	68,00 ± 2,00	68,00 ± 2,00	64,00 ± 2,00	64,00 ± 2,00
Al <sub>2</sub> O <sub>3</sub>	21,00 ± 1,00	18,00 ± 1,00	18,50 ± 0,30	18,50 ± 0,30	22,00 ± 2,00	22,00 ± 2,00	25,00 ± 1,00	25,00 ± 1,00
Fe <sub>2</sub> O <sub>3</sub>	0,80 ± 0,10	0,80 ± 0,10	0,40 max.	0,40 max.	0,55 max.	0,55 max.	0,55 max.	0,55 max.
CaO + MgO	0,10 ± 0,10	0,10 ± 0,10	0,50 max.	0,50 max.	0,60 max.	0,60 max.	0,60 max.	0,60 max.
Na <sub>2</sub> O + K <sub>2</sub> O	0,40 ± 0,20	0,40 ± 0,20	0,20 max.	0,20 max.	0,30 max.	0,30 max.	0,30 max.	0,30 max.
Cr <sub>2</sub> O <sub>3</sub>	0,01 ± 0,01	0,01 ± 0,01	0,03 max.	0,03 max.	0,04 max.	0,04 max.	0,04 max.	0,04 max.
SO <sub>3</sub>	0,50 ± 0,10	0,40 ± 0,10	0,40 max.	0,40 max.	0,55 max.	0,55 max.	0,55 max.	0,55 max.

## PARTICLE SIZE (%):

D50 (µ)				5.0		5.0		
+ 13 mm	2,0 max.	2,0 max.						
+ 150 µ					0		0	
+ 105 µ			0		3,0 max.		3,0 max.	
+ 74 µ			1,30 max.	0	5,0 max.		5,0 max.	0
+ 45 µ				1,5 max.		1,5 max.		1,5 max.

## MOISTURE (%):

RUTUBET (%)	8-15	8-15	0,5 max	0,5 max.	0,5 max.	0,5 max.	0,5 max.	0,5 max.
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## CASTING AND FIRING PROPERTIES:

Casting Concentrate (%)	76.9	74.07	75.2	75.2	65.4	65.4	66.2	66.2
Bulk Density (g/lt)	1917	1845	1873	1873	1642	1642	1687	1687
pH	8.43	9.17	9.98	9.98	9.58	9.58	9.11	9.11
Optimum Electrolyte Ratio (%)	0.33	0.54	0.51	0.51	0.48	0.48	0.39	0.39
Dry Shrinkage (%)	0.80	1.2	1.2	1.2	2.6	2.6	7	7
Total Shrinkage (%)	1.90	2.1	2	2	3.7	3.7	8.5	8.5
L	91.34	90.86	93.18	93.18	92.11	92.11	94.12	94.12
a	2.66	1.77	1.4	1.4	2.82	2.82	1.36	1.36
b	5.74	4.7	2.4	2.4	5.02	5.02	3.16	3.16

## TILE PROPERTIES:

Oil Absorbtion (%)	11	12	15	15	16	16	13	13
Water Absorbtion (%)	19.92	22.94	21.55	21.55	30.61	30.61	26.24	26.24
Dry Strength (kg/cm <sup>2</sup> )	17.58	14.2	12.26	12.26	27.66	27.66	34.52	34.52
Fired Strength (kg/cm <sup>2</sup> )	40.73	42.17	43.61	43.61	59.78	59.78	72.45	72.45

## PACKING:

PACKING	Bulk	Bulk	Big-Bag	Big-Bag	Big-Bag	Big-Bag	Big-Bag	Big-Bag
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