



**SIBELCO**

## **TILE RANGE**

Helping you improve yields and  
increase productivity

# Tile Range

Whatever type of tile you produce – monoporosa, monocottura, gres porcellanato or porcelain – it's essential to have raw materials with the right properties for each stage of manufacture, whether grinding, pressing or firing.

Working closely with you, we will provide the optimum combination of body raw materials to perfectly meet your needs.



## Feldspar materials & Nepheline

Feldspar materials & Nepheline		Chemical Analysis %								Recommended Applications			
Product	Country of origin	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	CaO	LOI	Wall Tiles	Glazed Gres Porcelain Tiles	Unglazed Gres Porcelain Tiles	Super-White Gres Porcelain Tiles
1005	TR	69.0	0.04	19.0	0.025	10.3	-	-	0.22				
980	TR	71.44	0.03	17.20	0.25	9.0	0.4	0.6	0.41				
1050	TR	70.49	0.28	17.8	0.22	9.75	-	-	0.41				
1040	TR	70.11	0.28	18.3	0.14	9.75	-	-	0.3				
1210	TR	67.1	0.02	19.2	0.04	8.40	4.70	-	0.1				
Nepheline N-500	NO	53.2	0.1	24.4	0.1	8.2	8.8	-	1.0				
Nepheline A-30 N	IT ES	57.6	0.08	23.5	0.08	8.9	7.5	-	0.8				
Lysite	NO DE	56.4	0.1	26.5	0.5	6.6	-	7.5	1.2				
FFF K6	FI	68.3	0.005	18.6	0.10	5.5	6.2	-	0.3				

Clays		Chemical Analysis (unfired) %							Carbon	M.O.R (dried @ 110°C)	Residue %>		Particle Size %<		Water absorption		Recommended Applications			
Product	Country of origin	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	LOI			125µm	63µm	10µm	2µm	1100°C	1200°C	Wall Tiles	Glazed Gres Porcelain Tiles	Unglazed Gres Porcelain Tiles	Super-White Gres Porcelain Tiles
DBY3	UA	58.0	1.4	27.0	0.95	0.5	2.1	7.8	<0.1	11.5	4.0	-	96	82	-	<0.2				
DBY4	UA	60.0	1.3	26.0	1.0	0.5	2.2	7.5	<0.1	11.0	4.5	-	96	75	-	<0.2				
DBK1	UA	62.0	1.4	24.0	1.2	0.5	2.3	7.0	<0.1	10.5	4.8	-	95	75	-	<0.4				

HV2	UK	64.0	1.5	23.8	0.9	0.3	2.1	6.6	0.2	-	0.50	-	90	66	0.80	-				
HRB8	UK	65.7	1.4	22.3	0.9	0.2	-	6.7	0.1	5.6	0.95	-	83	59	-	-				
HRBC	UK	63.9	1.4	23.5	1.0	0.2	1.6	7.5	0.1	5.2	1.93	-	86	58	-	-				
BK	UK	70.9	1.6	18.9	0.8	0.3	1.7	5.5	0.2	-	-	-	82	59	-	-				

163	DE	72.2	1.3	16.3	0.7	0.2	2.1	4.7	<0.1	3	-	6	-	50	9.2	2.1				
PD	DE	69.0	1.3	20.8	1.3	0.2	2.3	5.7	<0.2	4.1	-	5	-	57	-	1.8				
P	DE	66.5	1.4	22.0	1.0	0.1	2.2	6.5	<0.2	4.9	-	3	-	65	-	1.4				
PMP	DE	66.8	1.5	21.8	1.3	0.3	2.4	5.9	<0.2	5.4	-	3	-	60	-	1.3				
HKK	DE	63.2	1.3	24.5	1.9	0.2	2.7	6.8	<0.2	6	-	2	-	70	-	0.8				
201/2 ITE	IT	66.5	1.3	20.4	2.5	0.15	-	5.8	0.1	-	-	-	-	-	-	-				
PFM	DE	59.4	1.2	24.1	2.4	0.1	2.8	7.2	<0.1	5.6	-	1	-	71	-	0.2				
WFM	DE	70.8	1.5	18.5	0.9	0.2	1.9	5.3	<0.1	-	-	35	-	-	-	-				

Sand, glass & others		Chemical Analysis (unfired) %									Residue %>		Recommended Applications			
Product	Country of origin	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	MgO	Cr <sub>2</sub> O <sub>3</sub>	LOI	38µm	25µm	Glazed Gres Porcelain Tiles	Unglazed Gres Porcelain Tiles	Super-White Gres Porcelain Tiles	General Purpose
BBU-X	IT	87.10	0.05	6.94	0.35 +/- 0.3	1.74	1.59	0.11	-	-	-	-				
BBU-16	IT	87.10	0.05	6.94	0.23 +/- 0.03	1.74	1.59	0.11	-	-	-	-				
5/RD	IT	92.0	0.08	4.0	0.2	-	2.1	-	-	-	-	-				
6/RD	IT	94.0	0.08	5.0	0.4	-	2.2	-	-	-	-	-				
8/RD	IT	82.0	0.13	7.9	0.73	1.5	3.25	0.3	-	2.1	-	-				
VVR	IT	84.0	0.15	12.0	1.2	-	4.3	-	-	-	-	-				
Ultrafine Glass	IT	71.0	0.05	1.9	0.3	12.9	0.8	2.15	-	2.0	-	-				
Portachrom A38 chromite	NL	4.5	0.6	14	24	0.1	-	12	44	-	3.5	-				
Portachrom A25 chromite	FR	4.5	0.6	14	24	0.1	-	12	44	-	-	3.5				

Kaolins & Prepared Bodies		Chemical Analysis (unfired) %							Residue %>	Particle Size%<		Recommended Applications			
Product	Country of origin	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	LOI	63µm	10µm	2µm	Wall Tiles	Glazed Gres Porcelain Tiles	Unglazed Gres Porcelain Tiles	Super-White Gres Porcelain Tiles
RK H	DE	70.7	0.3	19.6	0.8	0.1	1.0	6.8	13	-	40				
RK L	DE	69.0	0.8	20.8	0.9	0.1	0.5	8.1	58	-	6				
K	DE	60.6	0.2	28.2	0.4	0.1	0.3	10.1	<0.5	-	48				
RK 3/4	CZ	84.7	0.3	9.0	0.5	0.2	2.4	2.7	75	-	11				
KDG	CZ	51.3	0.5	33.5	0.7	0.3	0.9	12.4	<0.1	-	60				
CC31	UK	48.7	0.09	35.5	0.8	0.1	2.9	11.6	-	96	53				



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