



„TABEX – OZMO” SP. Z O.O.

Ostrowiec Świętokrzyski
ul. Sandomierska 112

Assortment of goods, which are produced by “TABEX- OZMO” Sp. z o.o.

Shaped goods:	2
• chamotte and highly-grogged fireclay and high-alumina goods,	2
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• traditional refractory concrete,	12
• low cement concrete,	13
• andalusite concrete,	14
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• spray concrete,	20



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Chamotte products

Chamotte products include a few type of goods, which answer to different proportion of 2 main oxide: Al_2O_3 and SiO_2 . Main minerals, which can be found in finished products, are mulite crystal, cristobalite and vitreous phase.

Chamotte products of lower grade can safely be used in temperature till $1300^{\circ}C$ and products of higher grade, especially highly grogged fireclay, can be used in temperature till $1450^{\circ}C$.

Chamotte products

Properties		Grade								
		Al44	Ew	Es	E	Aw	As	A	Bw	Bs
Cold crushing strength	MPa	32	30	18	12	30	18	12	30	18
Apparent porosity	%	20	22	25	28	22	25	28	22	25
Refractoriness under load $T_{0,6}$	$^{\circ}C$	1460	1450	1425	1400	1400	1370	1350	1350	1320
Al_2O_3	%	42	39	39	39	36	36	36	32	32

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High – alumina goods

The high – alumina goods content 50 – 90% Al_2O_3 and mostly they are made of granular substance.

The more aluminium oxide products content, the higher under load and temperature of application they have.

The high – alumina goods can be used in many different equipment, which are worked in temperature 1450 - 1650⁰C.

High – alumina goods

Properties		Grade	
		A160	A162
Cold crushing strength	MPa	30	35
Apparent porosity	%	24	17-22
Refractoriness under load $T_{0,6}$	⁰ C	1520	1530
Al_2O_3	%	60	62

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Andalusite goods

These goods are made of raw material – andalusite. They have high thermal shock resistance and high cold crushing strength. These properties are connected with good configuration of mullite structure and low content of flux (Fe₂O₃, CaO, MgO, K₂O, Na₂O).

They are used in place, where the high resistance to acid slag attack and high temperature are needed.

Andalusite goods in quality AT50, AT55, AT60

Properties		Grade		
		AT50	AT55	AT60
Al ₂ O ₃	%	50	55	60
Fe ₂ O ₃	%	1,6	1,5	1,4
Cold crushing strength	MPa	40	45	50
Apparent porosity	%	18	18	18
Cold crushing strength T _{0,6}	°C	1500	1600	1620
Thermal shock resistance (amount of water changes at 850 °C)	Amount of cycle	45	50	50

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Acid proof products

These products have low water absorption. They also have very low acid solubility. They can be used in such kind of place, where there are high temperature and offensive environment for example in factory chimney. They are used in chemical industry to line equipment, where there are acid or other chemical substances, which have very caustic performance.

Unglazed acid proof products

Properties		Grade		
		KW1	KW2	KW3
Acid solubility	%	98,5	98,5	98,5
Water absorption	%	3-5	5-7	4-8
Cold crushing strength	MPa	60	40	30

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Insulating shaped good

These goods have low thermal conductivity, high apparent porosity 40 – 90% and low thermal capacity. Insulating goods can be used as a working course and damp course in thermal equipment. They are caused that there are lower loss of heat and that is why the equipments are more efficient.

Insulating chamotte goods

Properties		Grade			
		L10T	L10	L13	L8
Refractoriness	sP	167	165	161	163
Cold crushing strength	MPa	5 – 7	3	4	5
Bulk density	g/cm ³	1 – 1,15	1 – 1,2	1,3 – 1,4	0,85
Temperature limit of application	°C	1320	1250	1250	1260
Thermal conductivity in temperature:*	W/mK				
800 ⁰ C		0,45	0,46	0,51	0,33
1200 ⁰ C		0,52	0,52	0,56	0,42

*These properties are not shown in norm.

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Insulating perlite goods

Insulating perlite goods belong to unfiring goods on hydraulic bond. Goods like LPC4 and LPC6 should be used only as a damp course. They can cooperate in setting of firing goods.

Properties		Grade	
		LPC4	LPC6
Cold crushing strength	MPa	1,5	2
Bulk density	g/cm ³	0,45 – 0,55	0,65 – 0,70
Temperature limit of application	°C	800	900
Thermal conductivity in temperature:*	W/mK	0,22 -	- 0,25
Al ₂ O ₃ *	%	10	13
SiO ₂ *	%	49	51

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Refractory concrete

Refractory concrete are unfiring refractory goods. They contain refractory filling material, which has appropriate grain size and alumina cement. They can successfully be used instead of firing refractory goods.

Refractory concrete can be used in:

- steel industry – heat furnaces, elements of hot blast stove
- non – ferrous metallurgy – ladle
- ceramic industry - chamber furnace, tunnel furnace, gas pass
- cement industry – cooling bed, zone of calcination and cooling
- power plants – boiler furnaces, gas producing oven, drying stove
- chemical industry – rotary furnace, catalytic furnace and others

Refractory cement - prefabricated unit

Properties		Grade					
		BOS125	BOS135	BOS140	BOS145	BOS150	BOK160
Refractoriness	sP	145	154	167	171	173	175
Al ₂ O ₃	%	29	35	41	50	70	85
Cold crushing strength prefabricated unit: - after drying at 100 ⁰ C - after firing at temperature limit of application(hold at a temperature 5h)	MPa	25					30
		15					20
Linear thermal contraction or expansion at the temperature limit of application	%	+/-1,5					
Temperature limit of application	⁰ C	1250	1350	1400	1450	1500	1600
Thermal conductivity:	W/mK	0,81			-	1,22	1,74
		0,93				1,39	2,06

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Low cement concrete

Low cement concrete is new generation of concrete, which has high useful properties. It also has high strength and low porosity in all range of temperature. Low cement concrete can be used to line rotary furnace in cement industry, steel industry, ceramic furnace and foundry.

Low cement concretes are produced in granular substance and prefabricated unit.

Low cement concretes – prefabricated unit

Properties		Grade			
		BN135 BN135/WO BN135/WS	BN140 BN140/WO BN140/WS	BN145 BN145/WO BN145/WS	BN150 BN150/WO BN150/WS
Refractoriness under load T ₁₀	⁰ C	1350	1400	1450	1500
Cold crushing strength: -after drying at 100 ⁰ C -after firing at temperature limit of application	MPa	20		30	40
		30	40	60	80
Contraction or expansion after firing at temperature limit of application	%	+/-1,5		-1,5	
Thermal conductivity at 1150 ⁰ C*	W/m K	1,35	1,4	1,7	2,05
Temperature limit of application	⁰ C	1350	1400	1450	1500

* The indicated technical data are for information only and are not to be viewed as guaranteed values.

WO – with organic fibre

WS - with steel fibre

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Mortars

They are used to connect appropriate refractory goods. They are delivered dry. At the building site you should add some water to them.

Fireclay mortars, high – alumina mortars, insulating mortar

Properties		Grade				
		ZSz1	ZSz2	ZAL60	ZLPC	ZL
Temperature limit of application	⁰ C	900-1400	900-1350	over 1200	till 800	till 1300
Al ₂ O ₃	%	33	28	45	-	32
Refractoriness	sP	171	167	175	-	167
Application		for chamotte goods Es, As	for chamotte goods B, Bs	for high – alumina goods B, Bs	for insulating perlite goods	for insulating chamotte goods
Grain size	mm	0-1 0-2		0-1	0-2	0-1

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Ground fireclay

Ground fireclay are delivered in bulk, big – bag or they are packed in bags.

Milled dried refractory clay: GM1, GM2 with grain size II 0-2

Application – mortar and mix production

Milled fireclay: SzM1, SzM2, SzM3 with grain size

- I 0-1mm
- II 0-2 mm

Application: mix and concrete production

Milled dried refractory clay and milled fireclay

Properties		Grade				
		GM1	GM2	SzM1	SzM2	SzM3
Refractoriness	sP	173	169	169	165	161

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Grog for refractory concrete

Properties		Grade					
		BOS 125	BOS 135	BOS 140	BOS 145	BOS 150	BOK 160
Al ₂ O ₃	%	29	35	38	45	70	95
Refractoriness	sP	169	171	173	175	177	177
Grain size	mm						
I		0-5					0-3
II		0-10					0-5
III		0-20					0-10

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Low cement concrete

Properties		Grade			
		BN 135 BN 135/WO BN 135/WS	BN 140 BN 140/WO BN 140/WS	BN 145 BN 145/WO BN 145/WS	BN 150 BN 150/WO BN 150/WS
Temperature limit of application	⁰ C	1350	1400	1450	1500
Refractoriness	sP	171	173	175	177
Cold crushing strength: - after drying at 100 ⁰ C - after firing at temperature limit of application	MPa	20	20	30	40
		30	40	60	80
Required concrete for 1m ³	t	2	2,1	2,15	2,4

WO - organic fibre

WS – steel fibre

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Low cement andalusite concrete

Properties		Grade		
		BAN 150	BAN 160	
Temperature limit of application	°C	1500	1600	
Mixing water	%	4,5 – 6,5		
Chemical analysis:	%	Al ₂ O ₃	60	65
		CaO	1 – 1,8	
Cold crushing strength: - after drying at 110 ⁰ C - after firing at temperature limit of application	MPa	40		
		70	80	
Apparent porosity	%	18		
Thermal contraction or expansion	%	+/- 1,0		
Time of set	h	72		
Required concrete for 1m ³ setting	t	2,35	2,4	

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Insulating refractory concrete

These kind of concrete can be used as a damp course and a working course. They can be worked together with masonry envelope of a furnace, refractory goods and refractory concrete. They also can be used to line some elements of iron blast furnace, slag bases and slag spout, welding channel, ceramics furnace etc. They are delivered at the building site, where you should add some water.

When you want the insulating concrete work correct, they should be firing according to the appropriate curve.

Properties		Grade					
		BI 8/0,6		BI 8/0,8		BI 9/0,8	
		Cast	Spray	Cast	Spray	Cast	Spray
Temperature limit of application	⁰ C	800				900	
Bulk density after firing at temperature limit of application	g/cm ³	0,6	0,65	0,8	0,85	0,8	0,85
Cold crushing strength: - after drying at 105 ⁰ C - after firing at the temperature of application	MPa	1,5	1,8	2,6	3,6	3,5	4,5
		0,8	1,0	1,1	2,7	2,0	2,7
Thermal conductivity: 400 ⁰ C 600 ⁰ C 800 ⁰ C	W/mK	0,12	0,13	0,24	0,25	0,16	0,17
		0,14	0,15	0,28	0,29	0,20	0,22
		0,16	0,17	0,33	0,34	0,24	0,26
Chemical analysis: Al ₂ O ₃ Fe ₂ O ₃	%	10					
		2,8					
Required concrete for 1m ³ construction	kg	650	690	850	890	850	900
Water, which is needed for 100 kg mix	l	95	90	55	51	55	51

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Insulating concrete

Properties		Grade						
		BI 11/0,6		BI 11/0,8		BI 12/0,8		
		Cast	Spray	Cast	Spray	Cast	Spray	
Temperature limit of application	⁰ C	1100				1200		
Bulk density after firing at temperature limit of application	g/cm ³	0,6	0,65	0,9	0,95	0,6	0,65	
Cold crushing strength: -after firing at 105 ⁰ C -after firing at the temperature of application	MPa	3,5	4,0	6,5	7,5	4,0	4,2	
		2,0	2,5	3,5	4,0	2,0	2,3	
Thermal conductivity:	W/mK	400 ⁰ C	0,15	0,16	0,21	0,23	0,15	0,16
		600 ⁰ C	0,17	0,18	0,25	0,26	0,17	0,18
		800 ⁰ C	0,22	0,23	0,29	0,31	0,23	0,25
		1000 ⁰ C	-	-	0,32	0,33	0,24	0,27
Chemical analysis: Al ₂ O ₃ Fe ₂ O ₃	%	35,0		28,0		45,0		
		2,8		5,2		2,0		
Required concrete for 1m ³ construction	kg	630	690	930	990	630	690	
Water, which is needed for 100kg mix	l	60	56	35	30	60	55	

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Insulating concrete

Properties		Grade					
		BI 11/1,1		BI 11/1,3		BI 12/1,3	
		Cast	Spray	Cast	Spray	Cast	Spray
Temperature limit of application	⁰ C	1100				1200	
Bulk density after firing at temperature limit of application	g/cm ³	1,1	1,15	1,3	1,35	1,3	1,35
Cold crushing strength: -after firing at 105 ⁰ C -after firing at the temperature of application	MPa	9,0	10,0	10,0	11,0	12,0	14,0
		5,0	6,0	6,0	6,5	7,5	8,0
Thermal conductivity: 400 ⁰ C 600 ⁰ C 800 ⁰ C 1000 ⁰ C	W/mK	0,30	0,31	0,35	0,36	0,32	0,33
		0,33	0,34	0,39	0,40	0,35	0,36
		0,35	0,36	0,43	0,45	0,40	0,41
		0,40	0,42	0,46	0,48	0,43	0,44
Chemical analysis: Al ₂ O ₃ Fe ₂ O ₃	%	30,0		25,0		35,0	
		5,0		3,5		3,5	
Required concrete for 1m ³ construction	kg	1130	1180	1320	1360	1230	1260
Water, which is needed for 100kg mix	l	27	24	26	21	28	24

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Insulating concrete

Properties		Grade					
		BI 13/1,1		BI 13/1,3		BI 14/1,3	
		Cast	Spray	Cast	Spray	Cast	Spray
Temperature limit of application	⁰ C	1300				1400	
Bulk density after firing at temperature limit of application	g/cm ³	1,1	1,15	1,3	1,35	1,3	1,35
Cold crushing strength: -after firing at 105 ⁰ C -after firing at the temperature of application	MPa	9,0	11,0	9,0	11,0	12,0	13,0
		3,0	4,0	3,0	4,0	4,5	5,5
Thermal conductivity: 400 ⁰ C 600 ⁰ C 800 ⁰ C 1000 ⁰ C	W/mK	0,33	0,34	0,40	0,41	0,42	0,43
		-	-	-	-	-	-
		-	-	-	-	-	-
		0,55	0,57	0,50	0,52	0,57	0,59
Chemical analysis: Al ₂ O ₃ Fe ₂ O ₃	%	38,0		38,0		45,0	
		2,0		2,0		2,0	
Required concrete for 1m ³ construction	kg	1150	1220	1340	1420	1340	1410
Water, which is needed for 100kg mix	l	25	21	25	22	27	23

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Insulating concrete

Properties		Grade	
		BI 14/1,4	
		Cast	Spray
Temperature limit of application	⁰ C	1400	
Bulk density after firing at temperature limit of application	g/cm ³	1,4	1,45
Cold crushing strength: - after drying at 105 ⁰ C - after firing in temperature of application	MPa	12	13
		4,5	5,5
Thermal conductivity:	400 ⁰ C	0,42	0,43
	600 ⁰ C	-	-
	800 ⁰ C	-	-
	1000 ⁰ C	0,57	0,59
Chemical analysis: Al ₂ O ₃ Fe ₂ O ₃	%	46,0	
		2,0	
Required concrete for 1m ³ construction	kg	1330	1400
Water, which is needed for 100kg mix	l	25	21

Toleration:

Bulk density: +/- 10%

Cold crushing strength: - 20%

The concrete, which is used for spray, is shown with letter N.

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Spray concrete

Properties		Grade	
		NIK 120	NIK 130
Temperature limit of application	⁰ C	1200	1300
Bulk density after firing in temperature limit of application	g/cm ³	1,2	1,3
Cold crushing strength: - after drying at 105 ⁰ C - after firing in temperature of application	MPa	15	16
		10	10
Thermal conductivity: 400 ⁰ C 600 ⁰ C 800 ⁰ C 1000 ⁰ C	W/mK	0,40	0,45
		0,42	0,48
		0,45	0,53
		0,52	0,60
Thermal contraction or expansion	%	+/- 1,0	+/- 1,0
Required material*	t/m ³	1,15	1,35

*without loss during spray with concrete

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Cold gunning refractory products

Properties		Grade	
		NGB 135	NGB 145
Refractoriness	sP	150	160
Al ₂ O ₃	%	40	45
Cold crushing strength: - after drying at 110 ⁰ C - after firing at the temperature limit of application	MPa	25 – 60	
		20 – 35	
Grain size	mm	0 – 5	
Thermal contraction or expansion	%	+/- 1,0	
Required materials	T/m ³	2,0	2,05

„TABEX – OZMO” Sp. z o.o. ul. Sandomierska 112 27-400 Ostrowiec Św.	FAX : +48 41 2479898 +48 41 2479800	PHONE: +48 41 2479800 +48 41 2481546	E-MAIL: marketing@tabex-ozmo.pl
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