

SERMET
İÇ VE DIŞ TİC. LTD. ŞTİ.





ŞERMET İç ve Dış Ticaret Limited Şirketi, 2000 yılında İZMİR'de kurulmuştur.

Şirketimiz seramik sektöründe faaliyet gösteren fabrikaların hammadde, makine ve yedek parça ihtiyacının karşılanmasına yönelik faaliyetlerde bulunmakta, aynı zamanda seramik sektöründeki pek çok üreticinin dünya pazarlarıyla olan bağının kuvvetlenmesine aracı olmaktadır. Deneyimli, dinamik, güvenilir, kaliteye önem veren ve yenilikçi yapısının sağladığı iş hacmi ile Şermet İç ve Dış Ticaret Limited Şirketi, Türkiye'de dış ticaret konusunda öncü ve saygın bir kuruluş olarak yerini almayı başarmıştır.

Şirketimiz başta İtalya, Almanya, İspanya, Çek Cumhuriyeti, Çin, Slovenya, Rusya, İsrail, Hindistan ve Hollanda olmak üzere, dünyanın birçok ülkesinde çeşitli partnerleri ile müşterilerinden gelen talepleri en verimli şekilde karşılamak üzere iş birliği içinde bulunmaktadır.

Bizlerle paylaşacağınız her türlü önerinin sunacağımız hizmet kalitesini artıracığını hatırlatarak bizler için değerini bilmenizi isteriz.



HAMMADDELER

RAW MATERIALS



ALUMİNYUM OKSİT

ALUMINIUM OXIDE



Aluminyum oksit, yanıcı ve zehirleyici özellikleri olmayan bir hammaddedir. Başlıca kullanım alanları;

- Abrasiv ve refraktörler,
- Cam sanayi,
- Sır üretimi,
- Seramik karolar,
- Refrakter yalıtım malzemeler,
- Rafine kalsine alumina üretimi.

Aluminium oxide is a non-hazardous, non-toxic and not inflammable raw material. Mainly used;

- Corundum for Abrasives and Refractory
- Glass
- Glazes
- Ceramic Tiles
- Insulating Fibres (Refractory)
- Base Product for Refined calcined aluminas

ALUMİNYUM OKSİT TEKNİK DETAYLARI

ALUMINIUM OXIDE TECHNICAL DATA SHEET

Al ₂ O ₃	98,5 ± 0,5
SiO ₂	0,008 ± 0,007
Fe ₂ O ₃	0,014 ± 0,006
TiO ₂	0,002 ± 0,001
CaO	0,006 ± 0,004
Na ₂ O	0,32 ± 0,06
L.O.I.* (300°C - 1,000°C)	≤1,0
Whiteness	85 %
Bulk Density (Kg/cc)	970 ± 30
Angle of repose	34 ± 2
Specific surface area BET (m ² /g)	75 ± 8

BARYUM KARBONAT

BARIUM CARBONATE



Baryum karbonat, beyaz renkli ve granül yapıya kimyasal bir hammaddedir. Frit, sır ve diğer özel cam ürünlerinin üretiminde, malzemelerin dayanıklılığını ve işlevselliğini arttırmak amacıyla kullanılmaktadır.

Barium Carbonate is a white, granular chemical substance. It is used as raw material in the production process of special glasses, frits and glazes. It is a barium oxide carrier which optimizes the refractoriness and the workability of the glass.

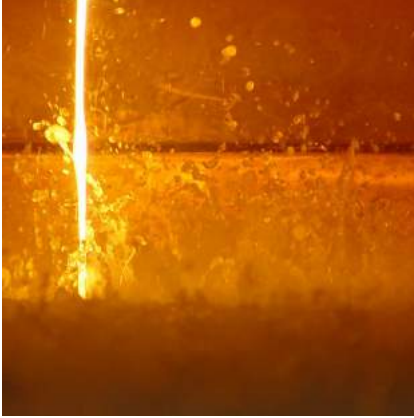


BARYUM KARBONAT TEKNİK DETAYLARI BARIUM CARBONATE TECHNICAL DATA SHEET

	BEST QUALITY	NORMAL QUALITY	ACCAPTABLE QUALITY
BaCO ₃	≥ 99.2 %	≥ 99.0 %	≥ 98.5 %
Total Sulfur (SO ₄)	≤ 0.25 %	≤ 0.35 %	≤ 0.45 %
HCL-insoluble	≤ 0.15 %	≤ 0.25 %	≤ 0.50 %
Iron (Fe)	≤ 0.004 %	≤ 0.004 %	≤ 0.008 %
Moisture	≤ 0.30 %	≤ 0.30 %	≤ 0.30 %
Particle size : 850 µm sieve residue	≤ 1 %		
150 µm sieve residue	≥ 85 %		

FRİT

FRIT



Frit, özel fırınlarda ergiyik hale getirilebilen, önce cam formda elde edilen daha sonra da granül hale getirilen bir seramik kompozisyonudur. Granül hale getirilen Frit emaye ve seramik sır yapımında kullanılmakta olan temel hammaddelerden en önemlisidir.

Temsilcisi bulunduğumuz Fritta S.L. firmasının üretmekte olduğu ürünlerin tamamı için satış ve lokal teknik destek hizmeti vermekteyiz.

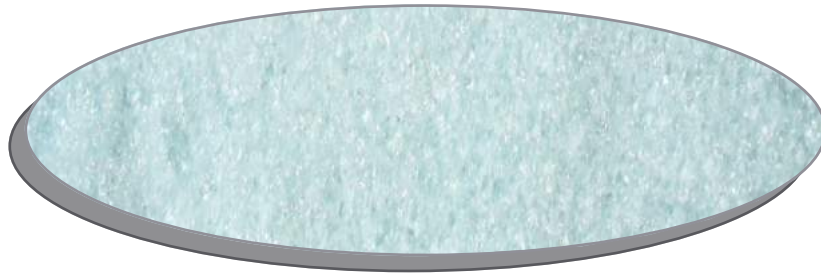
www.fritta.com

Frit is a ceramic composition that has been fused in a special fusing oven, quenched to form a glass, and granulated. Frits form an important part of the batches used in compounding enamels and ceramic glazes.

We are representing FRITTA company related products, sales and technical support service is located.

Specific frits adapted to each trend, fashion or technological advance adopted by the ceramic sector.

Fritta makes this component at several plants run by its subsidiaries around the world, improving distribution and reducing distances and delivery times.



KORUND

CORUNDUM



Korund, alüminyum oksit hammaddesinin ergiyik halinden elde edilmektedir ve temel olarak alüminyum oksit hammaddesine benzer kullanım alanlarına sahiptir. Başlıca kullanım alanları;

- Abrasiv ve refraktörler,
- Cam sanayi,
- Sır üretimi,
- Seramik karolar,
- Refrakter yalıtım malzemeler,



Corundum is a kind of aluminium oxide. The using area of this material is almost the same with the aluminium oxide using areas. Mainly used;

- Corundum for Abrasives and Refractory
- Glass
- Glazes
- Ceramic Tiles
- Insulating Fibres (Refractory)
- Base Product for Refined calcined aluminas

KORUND TEKNİK DETAYLARI CORUNDUM TECHNICAL DATA SHEET		
TYPE	Al2O3	Na2O
F12-F1500	≥ 98.5 %	≤ 0.40 %
TRUE DENSITY: ≥ 3.90		

CMC

KARBOKSİ METİL SELÜLOZ

CARBOXY METHYL CELLULOSE



CMC hammaddesi gıda, kozmetik, deterjan, boya ve seramik gibi bir çok sektörde geniş ölçüde kullanılmaktadır. Seramik sektöründe ise viskositenin kontrol edilmesi için bağlayıcı görevi görmektedir.

CMC is used as a binder, thickner, film former, stabilizer, adhesive in many industry, like food, cosmetic, detergante, paint and ceramic industries. It is used as viscosity controller and a binder in the ceramic industry.

CMC TEKNİK DETAYLARI CMC TECHNICAL DATA SHEET

PRODUCT CODE	USK 20 S	USK 50 TN	USK 2500 S	USK 10000F	USK 100000FD
DS	0.65-0.85	0.65-0.75	0.65-0.85	0,70-0,80	0,70-0,80
VISCOSITY (2%,25C BR) cps	20-50	50-100	2500-5000	8000-20000	60000- 100000
% SALTS	3	-	2	0,5	0,5
% CMC	97	65-75	98	99,5	99,5
PARTICLE SIZE	P* or G*	G*	P*	P*	P*

*P: Powder

*G: Granule

Yukarıda yer alan ürünler firmamız tarafından en çok satılan ürünlerdir. Bu ürünlerin dışında farklı özelliklerde CMC tedariği de firmamız tarafından yapılabilmektedir.

POTASYUM NİTRAT-KARBONAT

POTASSIUM NITRATE-CARBONATE



Potasyum nitrat ve potasyum karbonat hammaddeleri başta tarım endüstrisi olmak üzere havai fişek yapımı, cam ve frit üretimi gibi bir çok farklı sanayide kullanılmaktadır.

Potassium nitrate and potassium carbonate raw materials are mainly used in agriculture as a kind of raw material of fertilizers. The other important application areas are; frit, glass and firework production processes.



POTASYUM KARBONAT TEKNİK DETAYLARI POTASSIUM CARBONATE TECHNICAL DATA SHEET

	RATE
K_2CO_3	$\geq 99.6 \%$
Na_2CO_3	$\leq 0.2 \%$
Cl	$\leq 0.01 \%$
SO_4	$\leq 0.1 \%$
Fe_2O_3	$\leq 0.0 \%$
Al_2O_3	$\leq 1 \%$
Water Insolubles	≤ 0.01
Loss Ignition	≤ 0.1

POTASYUM NİTRAT TEKNİK DETAYLARI POTASSIUM NITRATE TECHNICAL DATA SHEET

	RATE
KNO_3	$\geq 99 \%$
K_2O	$\geq 46 \%$
N	$\geq 13.5 \%$
H_2O (Moisture)	$\leq 0.1 \%$
Cl	$\leq 0.03 \%$
Ferric	$\leq 0.01 \%$
Water Insolubles	$\leq 0.1 \%$



SODYUM TRİPOLİFOSFAT

SODIUM TRIPOLYPHOSPHATE



Sodyum tripolifosfat beyaz renkli, yanıcı ve zehirli etkileri olmayan bir hammaddedir. Deterjan üretiminde deterjanın etkinliğini arttırmak, suyun sertliğini düşürmek ve kirleri çözmek gibi ana amaçlara hizmet eder. Bunun yanında kağıt, boya ve cila üretiminde kullanılır. Seramik sektöründe akışkanlığı arttırmak amacıyla ve metal sektöründe yüzey işlemlerinde kullanımı vardır. Gıda sektöründe ise, salam, sosis vb. Et ürünlerinin ve peynir tuzlarının üretiminde kullanılmaktadır.

Sodium tripolyphosphate is a white powdered substance, non-flammable and non-poisonous. It is applied in the production of detergents. It intensifies the detergent efficiency, reduces water hardness and dissolves dirt. It is also widely used in paper, paint and varnish industries. It is used as a liquefying agent in ceramic industry. In food industry, STPP forms part of the special blends for the production of meat products (salami, sausages etc.) and it is also added to the emulsifying salts for the production of processed cheeses.

STPP TEKNİK DETAYLARI

STPP TECHNICAL DATA SHEET

	TEKNİK TİP (TECHNICAL GRADE)	GIDA TİPİ (FOOD GRADE)
$\text{Na}_5\text{P}_3\text{O}_{10}$	≥ 94 %	≥ 94 %
P_2O_5	≥ 57 %	≥ 57 %
Iron (Fe)	≤ 0.05 %	≤ 0.05 %
Inssoluble in water	< 0.1 %	< 0.1 %
PH (1% Solution)	9.2-10.0	9.2-10.0
Phase I Content	35 %	35 %
Moisture (105 C°)	≤ 0.8 %	≤ 0.8 %
Whiteness	85 %	85 %
Bulk Density (g/cc)	0.4-1.0 at request	0.4-1.0 at request
Flouride (F)	—	≤ 0.003 %
Arsenic (As)	—	≤ 0.0003 %
Heavy Metal (Pb)	—	≤ 0.001 %
Chloride (Cl)	—	≤ 0.025 %
Sulphate (SO_4)	—	≤ 0.04 %

SODYUM HEZAMETAFOSFAT

SODIUM HEXAMETAPHOSPHATE



Sodyum hezametafosfat, özellikle petrol, kağıt, maden, kimya, tekstil ve yapı malzemeleri sanayilerinde hammadde olarak kullanılmaktadır. Seramikte, seramik yüzeylerinin kalitelerinin artırılması amacıyla seramik çamurunda kullanılmaktadır. Gıda sektöründe ise ürün kalitesinin artırılması, PH değerinin dengelenmesi ve ürünlerin doğal renklerinin korunması gibi çeşitli amaçlarla kullanılmaktadır.



SHMP TEKNİK DETAYLARI SHMP TECHNICAL DATA SHEET

	TEKNİK TİP (TECHNICAL GRADE)	GIDA TİPİ (FOOD GRADE)
Total P ₂ O ₅	≥ 68 %	≥ 68 %
Inactive P ₂ O ₅	≥ 7.5 %	≥ 7.5 %
Iron (Fe)	≤ 0.05 %	≤ 0.05 %
Innsoluble in water	≤ 0.05 %	≤ 0.06 %
PH Value	5.8-6.5	5.8-6.5
Polymerization	9-21	9-21
Fineness (Mesh)	60-80	60-80
Heavy Metal (Pb)	—	≤ 0.001 %
Arsenic (As)	—	≤ 0.0003 %
Flouride (F)	—	≤ 0.003 %

Sodium hexametaphosphate is used in industries of oil fields, paper production, textile, petroleum, chemistry, metallurgy and construction materials. etc. In additionally, SHMP causes the heavy particles in the slip to drop to the bottom allowing the fine particles to be siphoned off and applied to a green ware ceramic surface. SHMP also effective on food quality improving, PH value adjusting and natural color keeping.



NEFELİN

NEPHELINE SYENITE



Nefelin, seramik ve/veya camı karışımların akışkanlık kapasitelerinin artırılmasında ve ergime sıcaklıklarının da düşürülmesinde rol oynamaktadır. Bu sayede üretimde ciddi bir enerji tasarrufu meydana gelir. Aynı zamanda camı ürünlerde Alumina kaynağı olarak da kullanılmaktadır. Alumina, bu tip ürünlerin kırılma dayanımının, termal şoklara ve kimyasallara karşı dirençlerinin artmasını sağlar.

Fiziksel formül: Granüle edilmiş toz halinde
Tanecik Boyutu: 5 – 30 µm
Kimyasal Kompozisyonu: 23% Al₂O₃ / 5% K₂O / 10% Na₂O / 60% SiO₂

In glass and ceramics, nepheline syenite, like feldspar, provides alkalis that act as a flux to lower the melting temperature of a glass or ceramic mixture, prompting faster melting and fuel savings. In glass, nepheline syenite also supplies alumina, which gives increased resistance to scratching and breaking, improved thermal endurance, and increased chemical durability.

Type: Raw material

Technology: Indistinct

Aspect: Granulated powder

Size distribution: 5 – 30 µm

CHEMICAL ANALYSIS

Composition: 23% Al₂O₃ / 5% K₂O / 10% Na₂O / 60% SiO₂

VOLLASTONİT

WOLLASTONITE



Vollastonit, seramik, boya, plastik, inşaat ve maden sanayi başta olmak üzere bir çok farklı sanayide kullanılmaktadır. Seramik sır, frit, emaye ve porselen yapımında çeşitli uygulamaları mevcuttur. Sır üretiminde sırn dayanıklılığının artırılması amacıyla kullanılırken, düşük LOI değeri nedeniyle ürün yüzeyinin daha pürüzsüz olması amacıyla da kullanılmaktadır. Aynı zamanda kullanımı itibariyle, pişme sürelerinin kısılmasına ve enerji tüketiminde tasarrufa neden olmaktadır.



VOLLASTONİT TEKNİK DETAYLARI WOLLASTONITE TECHNICAL DATA SHEET

	SIR İÇİN (GLAZE GRADE)	SERAMİK İÇİN (CERAMIC GRADE)
SiO ₂	≤ 50 %	≤ 50 %
CaO	≤ 43 %	≤ 44 %
Fe ₂ O ₃	≥ 0.15 %	≥ 0.40 %
MgO	0-3 %	0-1.5 %
TiO ₂	≥ 0.03 %	≥ 0.03 %
Al ₂ O ₃	≥ 0.8 %	≥ 0.8 %
S	≥ 0.001 %	≥ 0.001 %
P	≥ 0.001 %	≥ 0.001 %
LOI	2.5 or ≥ 3.0	≥ 2.5
Size	325 mesh	200-325 mesh

Wollastonite can be used in a variety of ceramic applications including ceramic glazes and bodies, enamels, frits, fluxes and in sanitaryware. This industrial mineral is a source of CaO to alkaline glaze formulations to improve the strength of the glaze. Wollastonite also has a low LOI (<1%) which gives minimal gas evolution during firing resulting in a smooth surface with diminished pinholing. Due to its acicular structure, wollastonite improves green strength and reduces crazing and checking especially during rapid heating and cooling. has a low LOI (<1%) which gives minimal gas evolution during firing resulting in a smooth surface with diminished pinholing.

BLANKFRIT

BLANKFRIT



Blankfrit sır ve engob hazırlamada zirkonyum silikat kullanım miktarını önemli ölçüde düşüren bir hammaddedir. www.fritta.com

Blankfrit is a kind of raw material decreasing the amount of zirconium silicate used in preparing glaze and engobe. www.fritta.com

BLANKFRIT KİMYASAL AÇILIMI BLANKFRIT CHEMICAL COMPOSITION	
SiO ₂	<40%
Al ₂ O ₃	<30%
ZrO ₂	>8%
K ₂ O	>4%

ZİRKONYUM SİLİKAT

ZIRCONIUM SILICATE



Zirkonyum silikat doğal zirkon kumundan öğütülerek elde edilen ve seramik, porselen ve vitrikiye sektöründe donuklaştırıcı etkisiyle geniş ölçüde kullanımı olan bir hammaddedir. Zirkonyum silikat, yapı malzemeleri ve porselen ürünlerinde göstermekte olduğu emülsiyon etkisi, ürünlerin mekanik ve termal gücünü, kimyasallara dayanıklılığını artırması ve renk stabilizasyonunu sağlaması gibi etkileri nedeniyle yüksek oranlı olarak kullanılmaktadır.



ZİRKONYUM SİLİKAT TEKNİK DETAYLARI ZIRCONIUM SILICATE TECHNICAL DATA SHEET

	KALIN	İNCE
ZrO ₂	≥ 63 %	≥ 62.5 %
HfO ₂	≥ 1.0 %	≥ 1.0 %
SiO ₂	≤ 34 %	≤ 34 %
Al ₂ O ₃	≤ 0.9 %	≤ 2.0 %
TiO ₂	≤ 0.2 %	≤ 0.2 %
Fe ₂ O ₃	≤ 0.1 %	≤ 0.1 %
K ₂ O	n.d.	n.d.
LOI	≤ 0.5 %	≤ 0.1 %
Particle Size	95 % min. Passing through 44 µm	D50=1.43 + 0.16 µm
Specific Activity	²²⁶ Ra ≤ 4.3 Bq/g ²³² Th ≤ 0.7 Bq/g ²²⁶ Ra + ²³² Th ≤ 5.0 Bq/g	²²⁶ Ra ≤ 4.3 Bq/g ²³² Th ≤ 0.7 Bq/g ²²⁶ Ra + ²³² Th ≤ 5.0 Bq/g

Zirconium silicate produced by milling the natural zircon sand is widely used as an opacifier of wall and floor tiles, sanitarywares and pottery. Zirconium silicate can be used for high quality construction materials and pottery with its uniform particle size and quality, showing superior emulsion effects, increased mechanical and thermal strength and resistance to chemicals, as well as color stability.

SODYUM LİGNOSÜLFONAT

SODIUM LIGNOSULPHONATE



Sodyum lignosülfonat temel olarak karışımlardaki su miktarını düşürmek amacıyla bir tür yapıştırıcı işlevi görmekte ve bu doğrultuda kullanılmaktadır. Düşük dozaj, düşük hava içeriği, yüksek su oranı düşürme özelliği nedeniyle bir çok çimento ve çamur karışımında tercih edilmektedir. Bu özellikleri nedeniyle, yapı sanayinde, deri sanayinde (boyama işlemlerinde) ve seramik sanayinde geniş ölçüde kullanılmaktadır.

Sodium lignosulphonate (water reducer) is mainly used for concrete mixture as water reducing additive. Low dosage, low air content, water reducing rate is high and can be adapt most kind of cement and masse mixtures. By these characteristics, it widely used in construction industry, leather coloring industry and ceramic industries.

SODIUM LIGNOSULFONAT TEKNİK DETAYLARI SODIUM LIGNOSULPHONATE TECHNICAL DATA SHEET

	A GRADE	B GRADE
Moisture	≤ 7 %	≤ 7 %
PH Value	9-11	9-13
Dry Matter	≥ 92 %	≥ 92 %
Lignosulphonate	≥ 50 %	≥ 50 %
Inorganic Sallts	≤ 5 %	≤ 5 %
Total Redusing Matter	≤ 4 %	≤ 6 %
Water Insoluble Matter	≤ 0.6 %	≤ 3 %
Calcium Magnesium General Quantity	≤ 1 %	≤ 1 %

SERAMİK BOYALARI

GLAZE & BODY STAINS

Seramik sektöründe kullanılmakta olunan, inclusion boyalar başta olmak üzere her türlü seramik sır ve masse boyalarının tedariki firmamız tarafından yapılabilmektedir.

We can supply all the body and glaze stains which used in ceramic industry. Especially we have good advantage about the supply of inclusion stains.



- Inclusion stains series
- Series of pigment for glaze, roto printing
- Body stain series
- Third firing series
- Series of gold liquid, gold paste
- Luster series
- Glass stains
- On- glaze stains series
- Noble metal granule

LÜSTERLER

Altın ve Gümüş (Lusters - Golden & Silver)

LUSTER TEKNİK DETAYLARI (Altın-
Gümüş) ES-61005107-0 / ES-61005335-0

	RATE
SiO ₂	> 40 %
Al ₂ O ₃	< 10%
B ₂ O ₃	< 10%
ZnO	< 10%
PbO	-
ZrO ₂	< 10%
TiO ₂	-
Alkali metal oxides	< 10%
Alkali-earth metal oxides	10 - 20%
Others	10 - 20%
Screen size 45 µ	0%
Screen size 25 µ	2%

Lüster genel anlamda seramik ürünlerin sırlı yüzeyleri üzerinde oluşturulmuş metalik film tabakasıdır. Firmamız FRITTA S.L. Firmasını üretmekte olduğu lüsterleri tedarik etmektedir.

Luster is a type of pottery or porcelain with a metallic glaze that gives the effect of iridescence, produced by metallic oxides in an overglaze finish. As Sermet İç ve Dış Tic. Ltd. Sti, we can supply the top quality products of FRITTA S.L. in this field. For more information visit; www.fritta.com.

INKJET DİJİTAL MÜREKKEPLERİ

INKJET DIGITAL INKS

Seramik sektöründe inkjet baskı teknolojisinin yaygın kullanımı ile birlikte dijital baskı mürekkepleri vazgeçilmez hale gelmiştir. Şermet İç ve Dış Tic. Limited Şirketi olarak FRITTA S.L. firmasının üretimi Inkjet Dijital Baskı mürekkeplerinin tedarikinde de sizlere yardımcı olmaktayız. Ürün detayları için bkz; www.fritta.com.

With the onset of digital technology in inkjet ceramic decoration, special inks have become an essential product. As Sermet İç ve Dis Tic. Ltd. Sti, we can supply the top quality products of FRITTA S.L. in this field. For more information visit; www.fritta.com

efi cretaprint

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KERAjet

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IN.TE.SA.

FLORA*
digital printing system

TECKWIN*
Production Digital Resolution

HOPE 希望*



HAMMADDELER
RAW MATERIALS

ŞERMET
İÇ VE DİŞ TİC. LTD. ŞTİ.

TİTANYUM DİOKSİT

Titanium Dioxide



Titanyum dioksit hammaddesi seramik sektöründe frit üretimi başta olmak üzere çeşitli amaçlarla kullanılmaktadır. Firmamız Anatase ve Rutil tip başta olmak üzere birçok farklı tipte titan dioksit tedarikini gerçekleştirmektedir.

Titanium dioxide is a raw material used in Ceramic market for many purposes, usually for the purpose of frit production. We are able to supply different kind of titanium dioxides mainly Anatase and Rutile types.

Titanyum Dioksit Teknik Özellikleri	
	RATE
TiO ₂	> 98 %
Surface Treated	None
Loss on Drying	< 0,5%
Water Soluble Substance	< 0,5%
Sieve Residue (325 mesh)	% 0,2
PH	6,5 - 8,5
Oil Absorbtion g/100 g	22
Tint Reducing Power (Compared With Standard Sample)	> 100
Please see material safety data sheet before handling the material.	



YARDIMCI
MALZEMELER
AUXILARY MATERIALS

%92 Al₂O₃

ALUMİNA BİLYA

ALUMINA BALL



Alumina bilyalar, yüksek sertlik ve yoğunlukları, aşınmaya karşı dirençli oluşları, korozyona karşı yüksek dayanıklılıkları vb. birçok nedenden ötürü öğütme işlemlerinde en etkin öğütme elemanı olarak dikkat çekmektedirler. Kimya, maden, seramik sektörleri başta olmak üzere bir çok sektörde yüksek oranlı bir şekilde kullanılmaktadırlar. %92 yoğunluklu Alumina bilyalar yoğun şekilde seramik sektöründe sır ve çamur öğütme işlemlerinde kullanılmaktadır.

Alumina balls are featured by high hardness, big density, low wear lost, good normalization, good corrosion-resistance, etc. They are the most ideal high-efficient grinding media for milling glaze material, body material and various powdered ore. **Applications:** Ceramic, cement, paints, refractories, inorganic mineral powders and other industries. %92 density alumina balls are especially used in ceramic industry about the grinding operations of glaze and slip.

%92 YOĞUNLUKLU ALUMİNA BİLYA TEKNİK DETAYLARI %92 DENSITY ALUMINA BALL TECHNICAL DATA SHEET		ÖLÇÜLER AVAILABLE DIAMETERS	
		MM	INCHES
Al ₂ O ₃	≥ 92 ± 0,5 %	20 ± 1	3/4
SiO ₂	≤ 7 %	22 ± 1	7/8
CaO	≤ 0.9 %	25 ± 1.5	1
MgO	≤ 1.2 %	30 ± 1.5	1 1/4
Fe ₂ O ₃ +others	≤ 0.2 %	40 ± 2	1 1/2
Bulk density	≥ 3.58 ± 0.02 %	45 ± 2	1 3/4
Hardness (Mohs)	9	50 ± 2	2
Water Absorption	≤ 0.01 %	60 ± 2	2 1/2
Self Wear Rate	≤ 0.012 % (24h)	70 ± 3	2 3/4
Color	White	80 ± 3	3 1/4



YARDIMCI MALZEMELER
AUXILARY MATERIALS

ALUMİNA BİLYA

ALUMINA BALL

%99 Al₂O₃

Alumina bilyalar, yüksek sertlik ve yoğunlukları, aşınmaya karşı dirençli oluşları, korozyona karşı yüksek dayanıklılıkları vb. birçok nedenden ötürü öğütme işlemlerinde en etkin öğütme elemanı olarak dikkat çekmektedirler. Kimya, maden, seramik sektörüleri başta olmak üzere bir çok sektörde yüksek oranlı bir şekilde kullanılmaktadırlar. %99 yoğunluklu Alumina bilyalar yoğun şekilde kimya ve kozmetik sektöründe öğütme işlemlerinde kullanılmaktadır.



*Alumina balls are featured by high hardness, big density, low wear lost, good normalization, good corrosion-resistance, etc. They are the most ideal high-efficient grinding media for milling glaze material, body material and various powdered ore. **Applications:** Ceramic, cement, paints, refractories, inorganic mineral powders and other industries. %92 density alumina balls are especially used in ceramic industry about the grinding operations of glaze and slip.*

%99 YOĞUNLUKLU ALUMİNA BİLYA TEKNİK DETAYLARI	
%99 DENSITY ALUMINA BALL TECHNICAL DATA SHEET	
Al ₂ O ₃	≥ 99 ± 0,5 %
SiO ₂	≤ 0.15 %
CaO	≤ 0.1 %
MgO	≤ 0.1 %
Fe ₂ O ₃ +others	≤ 2 %
Bulk density (g/cm ³)	3.30 ~ 3.60
Hardness (Mohs)	9
E-Modulus (Gpa)	300
Specific Heat 30°C ~ 100 °C J/Kg.k	850 ~ 1050
Color	White

ÖLÇÜLER AVAILABLE DIAMETERS	
MM	INCHES
3	1/8
6	1/4
10	3/8
13	1/2
16	5/8
20	3/4
25	1
30	1 1/4
40	1 1/2
50	2

YARDIMCI MALZEMELER
AUXILIARY MATERIALS



%75 Al₂O₃

ALUMİNA BİLYA

ALUMINA BALL



%75 yoğunluklu Alumina bilyalar seramik sektöründe sır ve çamur öğütme işlemlerinde kullanılmaktadır. Tercih edilme sebeplerinden en önemlisi fiyat avantajlarıdır.

%75 density alumina balls are one of the most important grinding media for milling glaze material, body material and various powdered ore. The most important advantage of %75 density alumina balls is the price competitiveness of these materials.

ÖLÇÜLER AVAILABLE DIAMETERS	
MM	INCHES
40 ± 2	1 1/2
45 ± 2	1 3/4
50 ± 2	2
60 ± 2	2 1/2
70 ± 3	2 3/4
80 ± 3	3 1/4

%75 YOĞUNLUKLU ALUMİNA BİLYA TEKNİK DETAYLARI %75 DENSITY ALUMINA BALL TECHNICAL DATA SHEET	
Al ₂ O ₃	≥ 70 %
Bulk density (g/cm ³)	≥ 2.97
Hardness (Mohs)	≥ 8
Water Absorption	≤ 0.01 %
Color	Light yellow

ALUMİNA BONCUK

ALUMINA BEADS

%90 Al₂O₃

Alumina boncuklar, kimyasal, petrol ve kozmetik gibi sektörlerde, öğütme işlemlerinde yüksek oranlı bir şekilde kullanılmaktadırlar. Bu sektörlerde kullanılan Alumina boncukların genel özellikleri, yüksek aşınma dayanımları ve hammaddelerin saflık derecelerini yüksek seviyelere çıkarabilmeleridir. Alumina boncuklar özellikle de zirkonyum silikat üreticileri tarafından tercih edilmektedir. Düşük aşınma oranları, kısa öğütme süreleri ve çevre dostu olmaları bu ürünlerin en önemli avantajlarıdır.

Alumina beads are main applied in chemical, oil , comsetic industries etc. as grinding media. The beads for these industries should have very good wear resistance and high strenght to ensure the high purity of the raw materials. Alumina beads are especially used by Zirconium Silicate producers as grinding equipment. Low wear rate, short grinding time and low pollution are the main advantages of these products.



ÖLÇÜLER ve AŞINMA ORANLARI AVAILABLE DIAMETERS AND WEAR RATES

MM	WEAR RATE (g/kg.h)
1 ± 0.2	-
3 ± 0.5	-
6 ± 0.5	≤ 0.20 %
8 ± 0.5	≤ 0.18 %
10 ± 1	≤ 0.12 %
13 ± 1	≤ 0.10 %
15 ± 1	≤ 0.08 %
18 ± 1.5	≤ 0.08 %
20 ± 1.5	≤ 0.08 %

%90 YOĞUNLUKLU ALUMİNA BONCUK TEKNİK DETAYLARI %90 DENSITY ALUMINA BEADS TECHNICAL DATA SHEET	
Al ₂ O ₃	≥ 90 %
CaO+MgO+Fe ₂ O ₃ +others	≤ 2 %
Bulk density (g/cm ³)	3.60
Hardness (Mohs)	≥ 9
Water Absorption	≤ 0.01 %
Self Wear Rate	≤ 0.012 % (24h)
Color	White

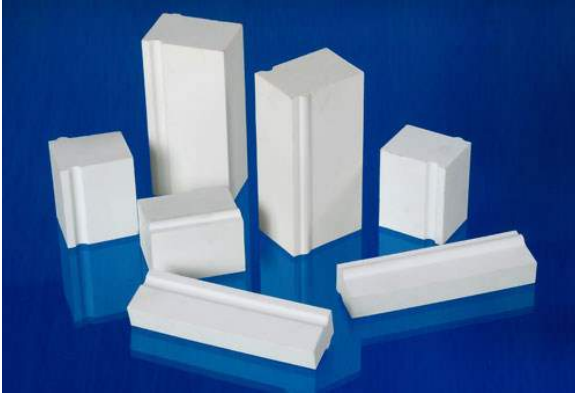
YARDIMCI MALZEMELER
AUXILARY MATERIALS



%92 Al₂O₃

ALUMİNA TUĞLA

ALUMINA LINING BRICKS



Tedarğini yapmakta olduğumuz Alumina tuğlaların karakteristik özellikleri;
-Üstün hammadde kalitesinden ötürü yüksek aşınma ve etkilenme direnci gösterirler.
-Ürünlerimizde farklı kullanım özelliklerine göre farklı üretim prosesleri kullanılmaktadır.
-Kullanım ömürleri uzundur.
-%92 Alumina tuğlalar, kauçuk tuğlalara kıyasla %15 daha etkindir.

The main characteristics of alumina lining bricks we supply;

-Better wear resistance and impact resistance due to high quality of raw materials. Different raw materials and producing processes are used according to the different use conditions of bricks and balls.

-Long using life

-Alumina lining bricks are 15% more efficient than rubber linings.

%92 YOĞUNLUKLU ALUMİNA TUĞLA TEKNİK DETAYLARI %92 DENSITY ALUMINA LINING BRICK TECHNICAL DATA SHEET

Al ₂ O ₃	≥ 92 %
SiO ₂	≤ 7 %
Bulk density (g/cm ³)	≥ 3.57
Hardness (Mohs)	≥ 9
Water Absorptions	0.01
Color	White

ALUMİNA TUĞLA

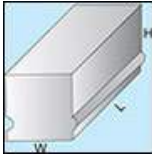
ALUMINA LINING BRICKS

%92 Al₂O₃

%92 YOĞUNLUKLU ALUMİNA TUĞLA ÖLÇÜLERİ

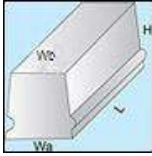
%92 DENSITY ALUMINA LINING BRICK DIMENSIONS

Non tapered (mm)



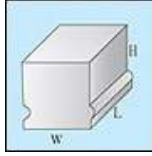
H	40	50	60	70	90
W	45	50	50	50	40
L	120	150	150	150	150

Tapered (mm)



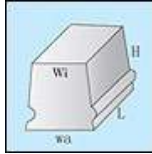
H	40	50	60	70	90
Wa	45	50	50	50	40
Wb	40	45	45	45	35
L	120	150	150	150	150

Half-Non tapered



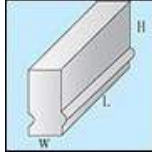
H	40	50	60	70	90
W	45	50	50	50	40
L	60	75	75	75	75

Tapered (mm)



H	40	50	60	70	90
Wa	45	50	50	50	40
Wb	40	45	45	45	35
L	60	75	75	75	75

Non tapered (mm)



H	40	50	60	70	90
W	25	25	25	25	25
L	120	150	150	150	150

%92 Al₂O₃

ALUMİNA ASTAR

ALUMINA LINER



STANDARD ÖLÇÜLER STANDARD DIMENSIONS

24 x 24 x 10 ± 0.2mm
24 x 12 x 10 ± 0.2mm
20 x 20 x 5 ± 0.2mm
20 x 20 x 4 ± 0.2mm
17.5 x 17.5 x 5 ± 0.2mm
17.5 x 17.5 x 4 ± 0.2mm
17.5 x 17.5 x 3 ± 0.2mm
10 x 10 x 4 ± 0.1mm
10 x 10 x 3 ± 0.1mm

%92 YOĞUNLUKLU ALUMİNA ASTAR TEKNİK DETAYLARI %92 DENSITY ALUMINA LINER TECHNICAL DATA SHEET

Al ₂ O ₃	≥ 92 %
SiO ₂	≤ 4 %
Bulk density (g/cm ³)	3.60
Hardness (Mohs)	≥ 9
Hardness (GPa)	11.8 Hv1.0
Water Absorptions	0.01
Bending Strength (MPa)	≥ 340
Compression Strength (GPa)	≥ 2.5
Thermal Conductivity 20C (W/ m.k)	16
E-modulus (Gpa)	280

ORTALAMA AŞINMA DEĞERLERİ AVERAGE WEAR RATE

Loss Weight (g)	4.1
Loss Bulk (cm ³)	1.138
Loss Weight (mm)	1.425
Wear Rate In Bulk	219

TEST DEĞERLERİ TEST CONDITIONS

30# SIC Sand Breeze	
Breeze Speed	35 m/s
Angle of Breeze	45°
Breeze Distance	5 cm



YARDIMCI MALZEMELER
AUXILARY MATERIALS

ZİRKON BİLYA

ZIRCON BEADS



Aşınma dayanımlı zirkon bilyalar boya, grafit ve metal / metal dışı minerallerin özel öğütme işlemlerinde yüksek özgül ağırlıkları, yüksek öğütme yetenekleri ve düşük aşınma özellikleri nedeniyle yaygın şekilde tercih edilmektedir.

Zirconium silicate wear resistance beads are used for ultra fine grinding of paint, graphite and metallic or non metallic minerals with features of high grinding efficiency, high specific gravity and low wear loss.



ZİRKON BONCUK TEKNİK DETAYLARI ZIRCONIUM SILICATE BEADS TECHNICAL DATA SHEET		
	ZRS 63	ZRS 53
ZrO ₂	63 %	~ 53 %
SiO ₂	30 %	~ 36 %
Al ₂ O ₃	-	~ 8 %
Others	7 %	~ 1 %
Bulk density (g/cm ³)	4.2	4
Hardness (Mohs)	8	8
Crushing Load	≥ 2000N	≥ 2000N
Wear Itself	0.0005 %	0.001 %
Specifications	∅ 0.5 mm ~ ∅ 13 mm	∅ 0.5 mm ~ ∅ 13 mm
Forming Method	Roller-Made	Roller-Made

SERAMİK RULOSU

CERAMIC ROLLERS



Ceramic rollers that we supply can be used at high temperature with excellent performance, because of under cooling-isostatic pressing technology treat.

Main characteristic specialities of the rollers we sell are;

- Used in the roller kiln,
- The advantage of high temperature durability,
- High bending strength,
- High temperature loading capacity,
- Strong thermal shock resisting capacity,
- Small expansion efficient,
- Size accuracy.

Tedarğini gerçekleştirmekte olduğumuz seramik ruloları, soğuk izostatik presleme metoduyla üretilmiş oldukları için yüksek sıcaklıklarda mükemmel bir performansla çalışabilme yeteneğine sahiptirler.

Rulolarımızın temel karakteristik özellikleri şu şekildedir;

- Tünel fırınlarda kullanılabilirlik,
- Yüksek sıcaklık dayanımı,
- Yüksek eğilme dayanımı,
- Yüksek sıcaklık yükleme kapasitesi,
- Termal şoklara dayanıklılık,
- Düşük genleşme etkinliği,
- Ölçü çeşitliliği.

STANDART SERAMİK RULOSU ÖLÇÜLERİ

STANDARD CERAMIC ROLLER DIMENSIONS

Φ 65 X4200	Φ 50 X3600	Φ 42 X2700	Φ 35 X2600
Φ 65 X4000	Φ 50 X3300	Φ 42 X2500	Φ 35 X2600
Φ 65 X3800	Φ 45 X3800	Φ 40 X3480	Φ 33.7X3150
Φ 60 X4600	Φ 45 X3600	Φ 40 X3300	Φ 33.7X2900
Φ 60 X4300	Φ 45 X3400	Φ 40 X3200	Φ 31X3100
Φ 60 X4100	Φ 45 X3200	Φ 40 X3060	Φ 31X2260
Φ 55 X4500	Φ 42 X3500	Φ 40 X2900	Φ 30X3100
Φ 55 X4100	Φ 42 X3300	Φ 40 X2700	Φ 30X2800
Φ 55 X3700	Φ 42 X3100	Φ 40 X2500	Φ 30X2600
Φ 50 X4000	Φ 42 X3060	Φ 35 X3100	Φ 25X2700
Φ 50 X3800	Φ 42 X2900	Φ 35 X2800	Φ 25X2500

ELEK BEZİ

SCREEN PRINTING MESH

Satışını yapmakta olduğumuz elek bezleri geniş yüzeyler üzerine yapılmak istenen yüksek kalitede baskılar için özellikle de seramik, cam, tekstil ve geniş yüzeyli posterler gibi ürünlerin baskılarında kullanılmaktadır.

Screen printing mesh which we are selling was designed to highest demand for printing on expansive surfaces like large glass, ceramic, large format posters, textile etc.



BAŞLICA ELEK BEZİ ÖLÇÜLERİ STANDARD SCREEN PRINTING MESH DIMENSIONS (MESH/CM μ M)			
10-250	43-80	68-55	120-34
12-250	47-45	68-64	120-40
21-150	47-55	72-48	130-34
24-100	48-70	72-55	140-31
28-140	53-45	77-48	140-34
32-55	53-55	77-55	150-31
32-64	54-64	80-48	150-34
32-100	54-70	90-48	160-34
36-90	61-64	100-40	165-34
39-55	64-55	110-40	-
40-80	64-64	120-31	-

ELMAS TAŞLAR-DİSKLER

DIAMOND FICKERTS-CUTTING DISCS



Elmas taşlar, seramik yüzeylerde cilalama ve parlatma işlemlerinde kullanılmaktadırlar. Yüksek ve kaliteli aşındırma ve cilalama yeteneği ve normal abrasiv taşlarına oranla yaklaşık 100 kat daha uzun ömürlü olmaları temel avantajlarıdır.

Diamond tools for rough grinding the surface of ceramic tiles. The main characteristics of these materials are high grinding ability, good grinding efficiency and long life time. Its life time is over 100 times longer than Silicon Carbide Abrasive Stones.

Elmas kesme diskleri, porselen karo, mermer, granit, kumtaşı, asfalt, refraktör tuğlalar vb. Birçok ürünün kesme işlemlerinde kullanılmaktadır. Otomatik ve manuel kesme makineleri için uygundur. Önemli avantajları; yüksek kesme kabiliyetleri, kesim kalitesi ve uzun ömürlü oluşlarıdır.

Diamond cutting discs especially used for cutting operations about porcelain tiles, marble, granite, sandstone, asphalt and refractory bricks. They are suitable for manual and automatic cutting machines. The most important advantages of these cutting discs are high cutting efficiency, high cutting quality and long lifespan.



PARLATMA ARAÇLARI

POLISHING TOOLS

Lappato ve Magnezit Taşlar



Abrasiv Fırçalar



Resin Bonded Squaring Wheel



Resin Bonded Chamfering Wheel

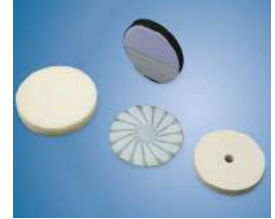
Diamond Radial Wheel



Nanowax-Nano Liquid



Polisaj süngerleri



Diamond rollers, Diamond Squaring, Calibratin & Chamfering Wheel



YARDIMCI MALZEMELER
AUXILARY MATERIALS



GARNET (ABRASİV KUMU)

GARNET



Doğal garnet kum halde koyu, toz halindeyse ise açık kırmızı renktedir. Genel itibariyle aşındırma, parlatma ve kesme işlemleri ile ilgili proseslerde kullanılmaktadır. Seramik ve diğer sektörlerde özellikle de sulu kesme makinelerinde kullanılmaktadır.

The color of nature garnet is dark red when it is processed into sand and light red when it is processed into powder. In generaly it is used as abrasive, polishing and cutting material about these operations. Especially it is the most favorable water jet cutting abrasive.

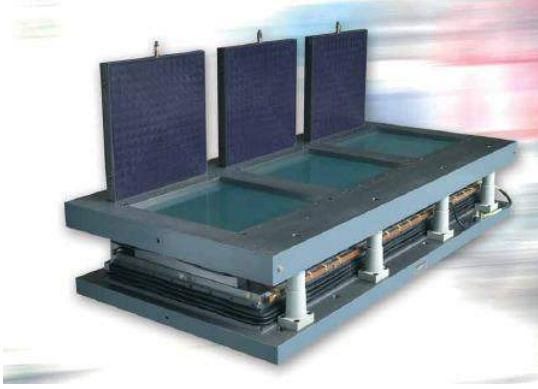
GARNET UYGULAMALARI APPLICATIONS OF GARNET	
8-12	Water Filtration
10-20	Water Filtration
16-20	Sand Blasting
20-40	Sand Blasting
30-60	Sand Blasting
60	Water Jet Cutting
80	Water Jet Cutting
120	Water Jet Cutting

GARNET TEKNİK DETAYLARI GARNET TECHNICAL DATA SHEET	
SiO ₂	35 ~ 40 %
Al ₂ O ₃	20 ~ 28 %
FeO	25 ~ 27 %
Fe ₂ O ₃	5 ~ 10 %
MgO	0.5 ~ 6.2 %
CaO	1.5 ~ 5 %

GARNET FİZİKSEL DETAYLARI GARNET PHYSICAL DETAILS	
Structure:	The inner structure of garnet
Specific Gravity	≤ 7 %
Hardness	≥ 3.57

KALIP KAPLAMA ELEMANLARI

MOULD COATING TOOLS



Seramik sektöründeki kalıpların kaplanmasında kullanılan çeşitli malzemeler ve makineler ile ilgili tedarik listemiz aşağıda yer almaktadır;

- Reçineler (T16 Isosistem, 85-95-98 Shore Polisistem, Imuthane tipi vb.)
- Kaynak Teli
- Reçine için yapıştırıcı
- Lubrolene E6
- Moca
- Seyreltici (Metilen Klorür)
- Film

We supply mould production tools and machines which are used in mould production process of moulds used in ceramic industry. Here is the general list of tools that we can supply;

- Resins (T16 Isosistem, 85-95-98 Shore Polisistem, Imuthane type etc.)
- Welding Wire
- Glue for Resin
- Lubrolene E6
- Moca
- Diluent for resin (Methylene Chloride)
- Film



YARDIMCI MALZEMELER
AUXILARY MATERIALS



KALİTE KONTROL KALEM, KALEM UCU VE MÜREKKEPLERİ

Products for Tile Marking



Kalite kontrolünde ve paketlemede kullanılan çeşitli renklerde mürekkep ve bu mürekkeplerin tatbikinde kullanılan çeşitli ölçülerde kalem ve kalem ucu tedarikimiz mevcuttur.

We can supply different kinds and colors of inks and different kinds of quality control pens and nibs which are used about the quality control operations and packings in ceramic industry.



MAKİNE, YEDEK PARÇA VE PAKETLEME ELEMENLARI

*MACHINE, SPARE PARTS AND
PACKING TOOLS*

MACHINE, SPARE PARTS AND PACKING TOOLS

GLAZING MACHINES & ACCESSORIES

Application Machinery



Glazing Accessories



FLAT SCREEN PRINTING MACHINES

CFA C11 - 45,60,90



FOX 45, 45S, 60, 60S



CLASSIC



Supreme 3rd Firing



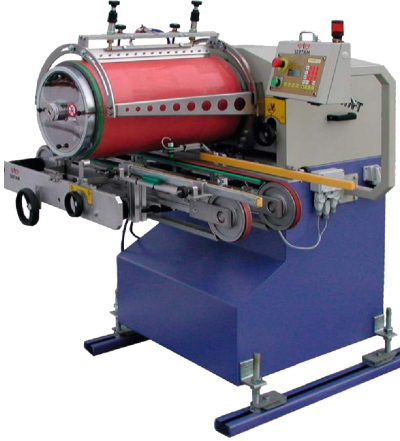
Supreme STR



MACHINE, SPARE PARTS AND PACKING TOOLS

ROTARY SCREEN PRINTING MACHINES

1 HEAD



4 HEADS



SKY



THIRD FIRING

ACCESSORIES

Grits Distributors



Spatte Sharpener



Wax Off Device



DRYERS



MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI
MACHINE, SPARE PARTS AND PACKING
TOOLS



MACHINE, SPARE PARTS AND PACKING TOOLS

VIBRATING SCREENS FOR THE SELECTING OF ENAMELS

340 PND



BI.SV 130



BI.SV 450-1 BM



BI.SV 450-1 C.Basso



BI.SV 600-1



BI.SV 800eco - 1



BI.SV 800S - 1



LEM 220



VIBRATING SCREENS FOR THE SELECTING OF LIQUIDS

BI.LM. 900-1 plan



BI.LS. 1500-3 floor



BI.LV 800S - 1 plan



BI.LV 900-1 plan



BI.LV 900-2 storey



VIBRATING SCREENS FOR THE SELECTING OF POWDERS

BI.P2V. 450-1 plan



BI.PV 450 - 1



BI.PV 800S - 1 CR



BI.PV. 900-1 plan



MACHINE, SPARE PARTS AND PACKING TOOLS

Vibrating screens for retropressa

BI.P2V 450 RP



BI.PV. 450



Tumbler Vibrating Screens

BI.PV 800S - I



Heavy series vibrating screens



Vibrating screens rectangular



Wheeled units with pneumatic



Accessories for vibrating screens



Accessories for vibrating screens,



Agitators for tanks



MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI
MACHINE, SPARE PARTS AND PACKING
TOOLS



MACHINE, SPARE PARTS AND PACKING TOOLS

Storage tanks



Accessories for mixers



Electric pumps



Buckets Shakers

500 SIRIO



A 8



K2 600



K3 - B 600



KIB 600



Pneumatic pumps Group melter



Group dissolving gypsum



MACHINE, SPARE PARTS AND PACKING TOOLS

POLİSAJ HATTI MAKİNELERİ / POLISHING LINE MACHINERY

Polishing machine



Calibrating machine



Wet/Dry squaring&Chamfering machine



Nano Coating polishing machine



Spare parts of machinery



MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI
MACHINE, SPARE PARTS AND PACKING
TOOLS



MACHINE, SPARE PARTS AND PACKING TOOLS

MILL FEEDING

CONTINUOUS DOSING AND WEIGHTING PLANTS

Raw materials contemporaneous dosing through load cells positioned on extractors



DISCONTINUOUS DOSING AND WEIGHTING

Clay extracting hopper positioned on load cells equipped with rubber mat



Feeder with metallic mat



CONVEYORS

Ringrolls



Belts



Cutters



Silos & Tapered



MACHINE, SPARE PARTS AND PACKING TOOLS

MIXTURE GRINDING

DISCONTINUOUS MILLS

Discontinuous mills suitable for wet grinding. Cylindrical body made of high thickness sheets with flat and swelled double head. . Available capacities from 100 litres up to 40.000 litres.

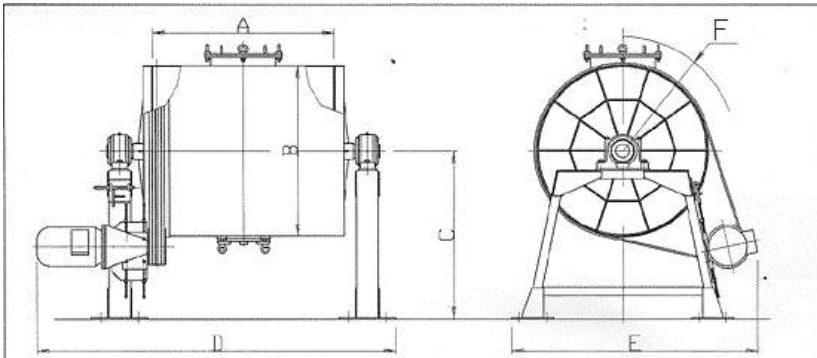
Discontinuous mill - 100 lt.



Discontinuous mill - 34.000 lt



Motorizations for disc. mills



TIPO TYPE	CAPACITA' A NUDO GROSS CAPACITY Lt./Litres	POTENZA INSTALLATA INSTALLED POWER HP		GIRI AL I' RPM	CAPACITA' DI CARICO LOADING CAPACITY Kg. S.		A	B	C	D	E	F	PESO WEIGHT Kg
		N	R		N	R							
100	94	1	2	43 - 44	25	30	480	500	1005	945	1000	400	330
200	223	1.5	3	37 - 38	50	65	580	700	1130	1130	1070	500	450
300	334	1.5	3	33 - 34	80	100	685	800	1165	1200	1100	600	550
500	500	2	5	29 - 31	150	180	785	900	1195	1370	1050	620	650
800	775	3	5.5	27 - 29	260	320	985	1000	1490	1780	1800	700	950
1000	1340	5.5	10	23 - 25	350	420	1185	1200	1770	2040	1920	800	1400
2000	2130	7.5	15	21 - 23	650	850	1365	1400	1935	2400	2070	900	2300
3000	3185	10	20	19 - 20	1000	1300	1555	1600	1950	2700	2070	1000	3000
5000	5040	15	25	17 - 18	1500	2000	1980	1800	1955	3300	2370	1070	3950
8000	8310	25	40	15 - 16	2300	3000	2400	2100	2100	4200	3000	1240	7600

N.con sfere PS/N.with sphere PS 2.7

R=con sfere PS/with sphere PS 3.37

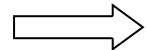
STANDARD SPECIFICATIONS

Installation made of electro-welded steel plate with reinforced body sides. Hubs made of special steel. Central manhole. Central charge and discharge orifices. Cast iron supports with double row roller bearing. Support frames. Traction through trapezoidal belts.

N.B.: A.M. measurements are simply indicative.

MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI
MACHINE, SPARE PARTS AND PACKING
TOOLS

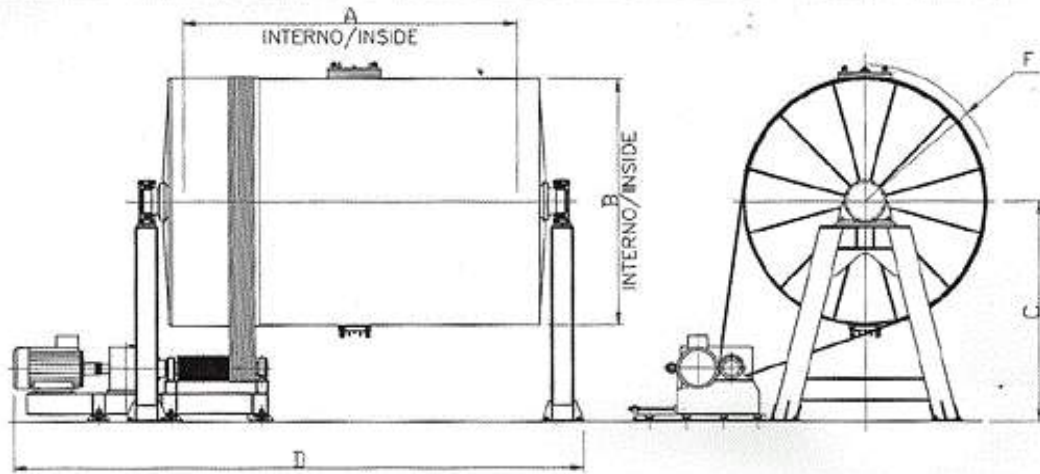
Devam ediyor...



MACHINE, SPARE PARTS AND PACKING TOOLS

MIXTURE GRINDING

DISCONTINUOUS MILLS



TIPO TYPE	CAPACITA' A NUDO GROSS CAPACITY Lt/Litres	POTENZA INSTALLATA INSTALLED POWER HP		GIRI AL I' RPM	CAPACITA' DI CARICO LOADING CAPACITY Kg. S.		A mm	B mm	C mm	D mm	E mm	F mm	PESO WEIGHT Kg
		N	R		N	R							
10000	10300	30	50	14 - 15	3400	4300	2480	2300	2070	4400	3010	1345	8800
12000	12760	40	60	14 - 15	4000	5000	2600	2500	2260	4700	3400	1440	9500
16000	15930	50	75	14 - 15	7000	8500	3400	2600	2335	5300	3350	1490	11500
20000	20000	50	75	14 - 15	8000	10000	3250	2800	2500	6745	2500	1650	17500
25000	25435	75	100	11 - 12	9000	12000	3600	3000	2820	6745	2500	1750	20000
30000	29545	100	125	11 - 12	11000	14000	4180	3000	2880	7340	2850	1750	21000
32500	32515	100	125	11 - 12	13000	16000	4600	3000	3000	7340	2850	1750	22000
34000	33780	125	150	10 - 11	14000	17000	4200	3200	3205	7510	2900	1860	23000
38000	38041	150	180	10 - 11	16000	19000	4750	3200	3205	7510	3000	1860	25000
39000	39006	150	180	10 - 11	16500	20000	4850	3200	3205	7510	3000	1860	26000

N.con sfere PS/N.with sphere PS 2.7

R=con sfere PS/with sphere PS 3.37

STANDARD SPECIFICATIONS

Installation made of electro-welded steel plate with reinforced body sides. Hubs made of special steel. Central manhole. Central charge and discharge orifices. Cast iron supports with double row roller bearing. Eventual support frames made of electro-welded steel plate. Special type drive group with disc brake for blocking. Traction through trapezoidal belts.

N.B.: A.M. measurements are simply indicative.



MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI
MACHINE, SPARE PARTS AND PACKING
TOOLS

MACHINE, SPARE PARTS AND PACKING TOOLS

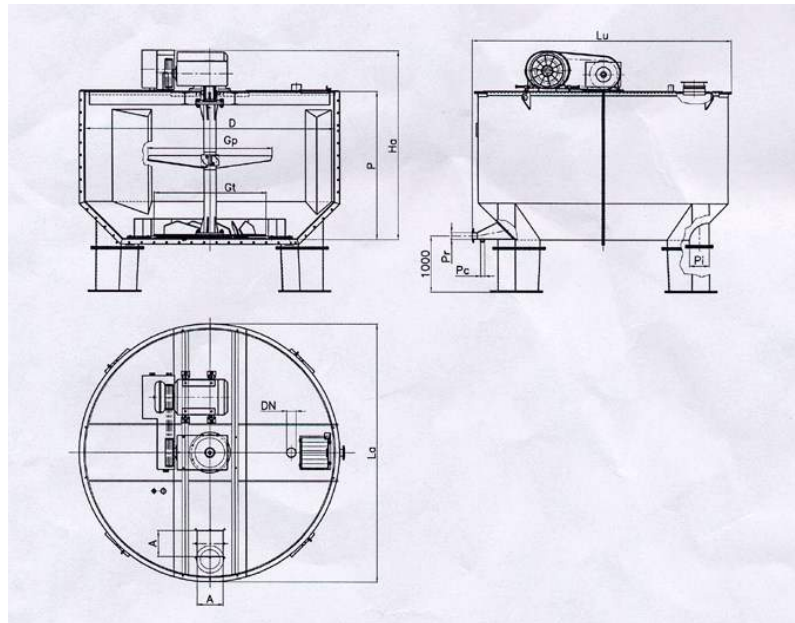
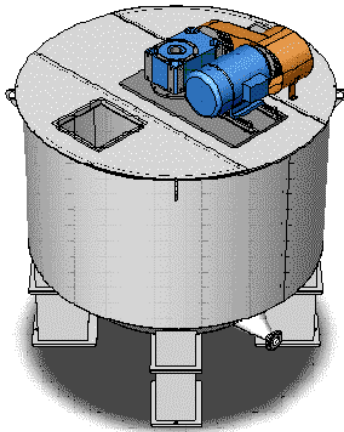
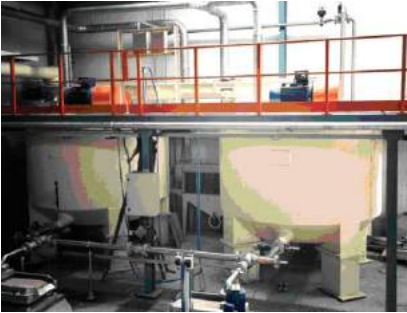
MIXTURE GRINDING

CONTINUOUS MILLS



HIGH-SPEED BLUNGERS

The high speed blunger series "GeCo" has a working variable capacity from 1.600 lt. to 20.000 lt. and it is suitable for the rapid preparation of enamels and slips also with very high characteristics of viscosity and density.



MAKİNE, YEDEK PARÇA VE
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MACHINE, SPARE PARTS AND PACKING
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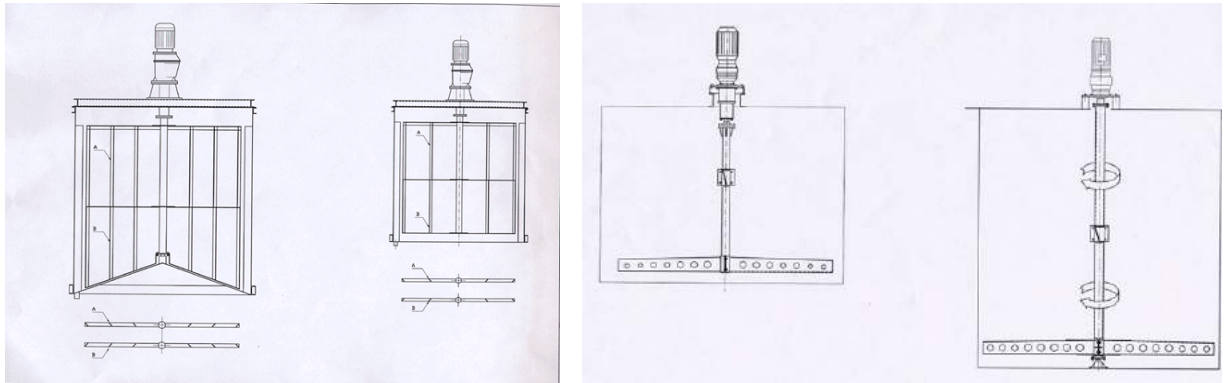


MACHINE, SPARE PARTS AND PACKING TOOLS

MIXTURE GRINDING

STIRRERS

Stirrers suitable for slip, ceramic enamels and mixtures. Axles and blades available either in stainless steel or in coated plates.

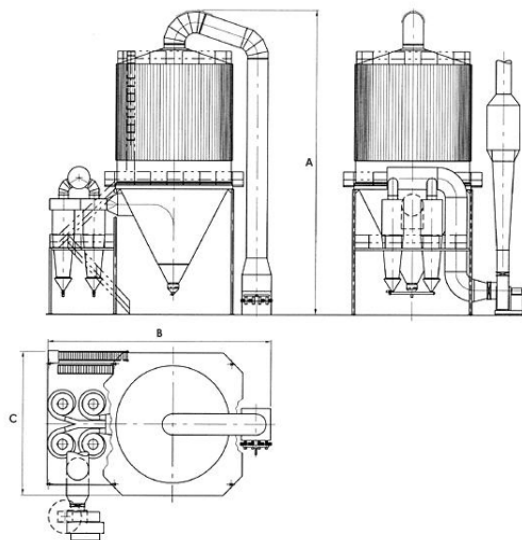


AUTOMATION

SPRAY DRYERS

Plant for the spraying and drying of slip to obtain ceramic powders through an automatic and continuous process exploiting hot air draughts. The central part of the spray dryer is composed of the drying chamber that is a cylindrical body with a conical bottom and a conical top.

Essiccati a spruzzo con ugelli a pressione serie GeCo
Spray dryers with pressure nozzles GeCo serie



DATI PRINCIPALI MAIN TECHNICAL DATA				DIMENSIONI MAX. D'INGOMBRO MAX.OVERALL DIMENSIONS		
MODEL	MAX. CAPACITÀ EVAPORATIVA MAX. EVAPORATING CAPACITY t/h	POTENZA TERMICA INSTALLATA INSTALLED THERMAL POWER kcal/h	A	B	C	
			mm	mm	mm	
30	35	30000	8000	5800	3500	
60	70	60000	9500	6500	4000	
125	180	150000	11150	6500	4800	
250	300	300000	12500	8300	6000	
500	600	500000	14300	9500	6800	
750	900	750000	15300	9500	6800	
1000	1200	1000000	16400	11000	7700	
1500	1800	1500000	18250	12800	9100	
2000	2400	2000000	19000	13500	9500	
2500	3000	2500000	19500	13500	9500	
3000	3600	3000000	20500	13800	10300	
4000	4800	4000000	21700	13800	10300	
5000	6000	5000000	23350	16800	13000	
6000	7000	6000000	23850	16800	13000	
7000	8200	7000000	23850	16800	13000	
8000	9300	8000000	25500	18500	14000	
9000	10400	9000000	25500	18500	14000	
10000	11500	10000000	26500	20000	15000	
12000	14000	12000000	27500	21000	16500	
15000	17500	15000000	29800	23000	17000	
18000	22500	18000000	28500	23000	18000	
20000	25000	20000000	30200	24000	20000	



MACHINE, SPARE PARTS AND PACKING TOOLS

SPRAYING NOZZLES



MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI
MACHINE, SPARE PARTS AND PACKING
TOOLS



MACHINE, SPARE PARTS AND PACKING TOOLS

RUBBER BALL MILL COATING Kauçuk Değirmen Kaplamaları



MACHINE, SPARE PARTS AND PACKING TOOLS

AUTOMATION

LIQUID COLOURING SYSTEM

It allows the controlled dosing of pigments on a mixture in water suspension (slip) at the inlet to the spray dryer. The control refers to any single delivery (pigments slip) as far mass and density, thus it allows precision dosing between relevant dry weights.

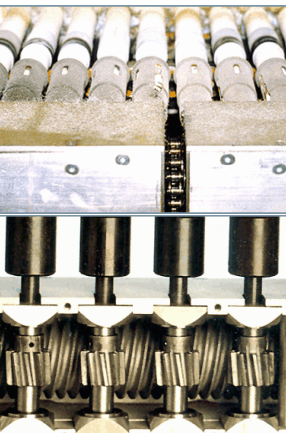


STORAGE SILOS



MECHANIZATION AND AUTOMATION FOR KILNS

WORM SCREW MECHANIZATION



The mechanic system (screw + gears) has been studied with suitable materials and closed into an aluminium box with oil seal that allows a correct lubrication of the members and at the same time protects from dust and impurity.

MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI



MACHINE, SPARE PARTS AND PACKING TOOLS

MECHANIZATION AND AUTOMATION FOR KILNS

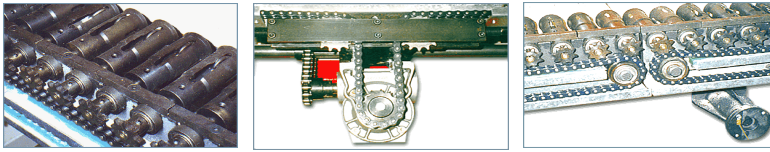
ENDLESS SCREW MECHANIZATION WITHOUT OIL

The endless screw mechanisation type without oil is realised with single roller holder steel blocks.



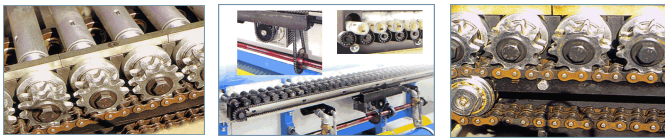
CHAIN MECHANISATION

One of the most used system is the chain transmission. It is easy to use and to maintain. Today, thanks to new solutions such as pinions with special toothing and pins with different roller hooking system, we have succeeded in rising their reliability.



CHAIN MECHANISATION FOR HEAVY LOADS

Should come the problem to load more than 4 kg. per roller, we suggest a different range of draft which differ, besides for their aspect, also for their different technical solutions, which may concern the roller hooking with particular pins, the application of double idle side with special bearings, the use of a duplex chain, all this in order to warrant the best control of the material inside the kilns.



BEVEL GEAR PAIR MECHANISATION



It belongs to the range of drafts and gears. It is normally used both for light and heavy loads, just because, thanks to its versatility, it can make pitches from 40 mm. onwards with any kind of roller.

CERAMIC ROLLER COOLING MACHINE



A machine that, in a little space, helps to not alter the arrow of the ceramic roller during the operation of cooling after having extracted them from the kiln.

ROLLER LENGHT MINIMUM MAXIMUM	POSITION NUMBER	ROLLER DIAMETER MINIMUM MAXIMUM
mm 2600 ÷ 3000	42	mm 26,9 ÷ 55
mm 2800 ÷ 3200	42	mm 26,9 ÷ 55
mm 3000 ÷ 3400	42	mm 26,9 ÷ 55



MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI
MACHINE, SPARE PARTS AND PACKING
TOOLS

MACHINE, SPARE PARTS AND PACKING TOOLS

MOULDS & PUNCHES

Retractable punch mould



The retractable punch mould is certainly one of the most widely used solutions in the industry. Its main advantages are structural simplicity combined with limited fabrication costs.

Special production moulds



The FDS Ettmar Group has twenty years of experience in the manufacture of moulds and dies for the production of special pieces of every type.

Double die-box



This solution is ideal for users who generally produce the same format while frequently changing the type of profile (sharp edge/chamfered corners, straight/wavy edges, etc.).

SFS top forming modulo



The SFS top forming mould has been created to meet the need for producing tiles equipped with spacers but pressed with their fair face towards the moving beam of the press.

SMF - Fast changeover system



This system increases the versatility of the mould with the objective of optimising productivity.

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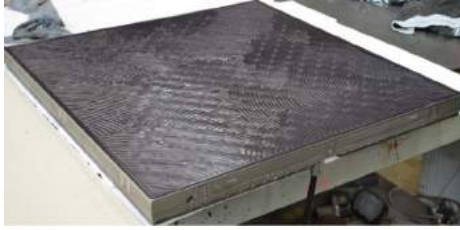


MACHINE, SPARE PARTS AND PACKING TOOLS

MOULDS & PUNCHES

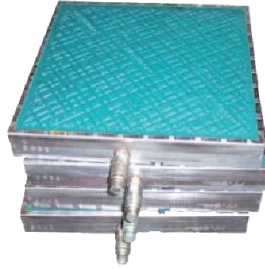
PUNCHES

Airless punches



The main feature of the Airless punches is constituted by a system of air deaeration distributed over the entire surface of the structure. In this way the air contained in the powders can be eliminated faster and in a more homogeneous way.

Isostatic pressing



This system is based on the fact that a static liquid will transmit pressure in all directions, thus allowing for even pressed density over the entire tile body so that the tiles are perfectly formed after firing.

TCS - tubeless connection



This solution allows connecting the isostatic punches in order to guaranteeing the obtaining of unique calibre taking advantage to the principle of communicating vases without to use external tubes.

Security Box



This is a safety system which continuously monitors the hydraulic pressure along the circuit connecting the dies installed in the operating press, so as to precisely set the minimum operating limit under which it automatically stops the production cycle so as to prevent operating errors, thus eliminating rejects and second choice products.

ACCESSORIES

Trolley CCO01



Hydraulic tools - Plus pressure

UNICA isostatic Ejector



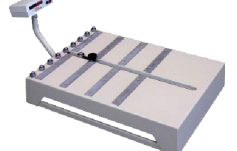
Hydraulic tools - Pressure

Trolley CTM



Hydraulic tools -

Tilecal series



SME lifting device



MACHINE, SPARE PARTS AND PACKING TOOLS

PLUNGER PISTON PUMP FOR CERAMIC SLIPS AND ALL SPARE PARTS 9000LT(TPB 85) & 13000LT (TPB88)



The pumps with plunging pistons have been studied for feeding the spray-driers, and for transporting ceramic slips and thick liquids. The pump is formed by: two pistons, run by two hydraulic cylinders; suction and delivery valves can be easily disassembled for rapid inspection or for cleaning the pump; an air accumulator; a control pressure gauge; a max. valve to adjust the working pressure at any value (within the fixed limits), and a safety valve.

Temsilcisi bulunduğumuz Tecnopress firmasının üretmekte olduğu çamur pompalarına ait her türlü yedek parçayı temin etmekteyiz. Büyük çoğunluğu (İzmir) depomuzda mevcut olan yedek parçalar için detaylı kataloğu firmamızdan talep edebilirsiniz.

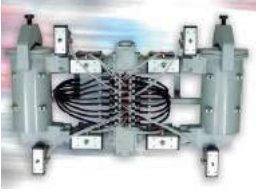


MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI
MACHINE, SPARE PARTS AND PACKING
TOOLS



MACHINE, SPARE PARTS AND PACKING TOOLS

FİLTRELER / FILTERS



TFB1 ve TFB4 çamur filtreleri, çamur pompası ve spray drier arasına takılmaktadır. Çamurda oluşabilecek ve spray drier nozzlelerinin işlevini gerçekleştirememesine neden olabilecek katı partiküllerin engellenmesini sağlar. Ayrıca by pass sistemi sayesinde çalışmayı durdurmadan temizlenmesi ve yenilenmesi mümkündür.

TFB1 and TFB4 slip filter is installed between piston pump and spray-drier, and is used to filter possible impurities that could clog the spray-drier nozzles jeopardizing a correct operation. Our system includes a by-pass enabling to wash or replace the filtering net without stopping the system.



Off line yağ filtrelerimiz, içermekte oldukları özel selüloz kartuşlar sayesinde, 3 mikrona kadar katı partikülleri ve toplam kapasitesinin %50 sine denk gelecek seviyede likidi emebilecek şekilde dizayn edilmiştir. Bu özellikleriyle oksidasyonun engellenmesine ve yağın kullanım ömrünün uzamasına katkıda bulunurken, diğer yandan presslerdeki tıkanmaları da engellerler.

All the filters insert have a filtration of 3 micron absolute, i.e. of all solid particles bigger than 0,8 micron will be retained in one pass. The water absorption capacity of the cellulose based inserts is up to 59% of the total contaminant holding capacity. The depth of the offline filter inserts creates a highly efficient oxidation absorption

THERMOCOUPLES



SMU SPARE PARTS



SORTING LINE SPARE PARTS



PIPES



MACHINE, SPARE PARTS AND PACKING TOOLS

PAINTING

Conventional Painting

ECCO spray guns



FA spray guns



Caps, nozzles and needles for ECCO - FA



KREMLIN spray guns



PILOT spray guns DeVilbiss and SAGOLA spray



DeVilbiss and SAGOLA spray guns



ASTURO and WALMEC spray guns



MAKİNE, YEDEK PARÇA VE
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MACHINE, SPARE PARTS AND PACKING
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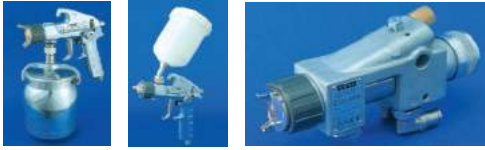


MACHINE, SPARE PARTS AND PACKING TOOLS

PAINTING

HVLP painting

ECCO HVLP spray guns, caps & nozzles



AIRMIX painting

AIRMIX spray guns, caps & nozzles



Spray Guns for Adhesives

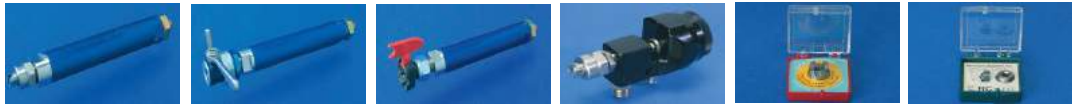
APZ / MFS Spray Guns



Pompa Airless Automatica

Airless Painting

Airless Continuous Flow, Automatic Spray



Pumps & Spray Control Units

WILDEN double diaphragm pump



Panel-mounted pump



ALL FLO double diaphragm pump



AC spray gun control unit



TF50 double diaphragm pump



Paint control pressure gauge



Electric piston



BINKS 84-520 pressure



Airless



FLOJET double diaphragm pump



MACHINE, SPARE PARTS AND PACKING TOOLS

DURST digital printing machines consumables

Conveyor & Toothed Belts



Durst flat conveyor belt width 665 - length 9.600 endless

Durst flat conveyor belt width 800 - length 10.400 endless

Durst toothed belt AT10/880/25 with steel cord

**Pump model
GRI 17651-081**

**Pump model
GRI 14520**

**Pump model
CA-S-DB 380 B**

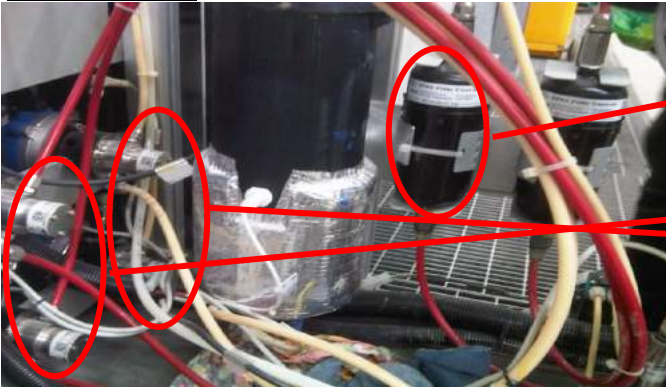
**Filter Bumber
S9 G638W**

**Clean towels 150
units pack**



INTESA digital printing machines consumables

Filters & Pumps



PALL filter DFA C2J100SW84M
ZENPURE filter SKP-P100
(2 pcs for each)



Magnetic pump
MG409XD0GT00000
with motor adaptor
(4 pcs for each)



Fluoroelastomer tube mm 3,2X4,6
Fluoroelastomer tube mm 4,8X8
Fluoroelastomer tube mm 6,4X8,7



A100033/C - Toothed belt mm 30X10464 @

MAKİNE, YEDEK PARÇA VE
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MACHINE, SPARE PARTS AND PACKING
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MACHINE, SPARE PARTS AND PACKING TOOLS

TECNOFERRARI digital printing machines consumables

**3834TF0300
PUMP**



**DRIVE
ELECTRONICS**



**Clean towels
150 units pack**



**fluran tube
set - VFR1571**



**FP01092 BIG
FILTER BACK**



**inverter
3838OM0740**



**SMALL FILTER
FRONT**



CRETAPRINT digital printing machines consumables



MACHINE, SPARE PARTS AND PACKING TOOLS

KERAJET digital printing machines consumables

KJ10020
FILTERS 5 MICR.



KJ16279
G1/4 SIDE PORTS



KJ10012
SWITCH ETHERNET



KJ13259
TRANSDUCTOR



KJ16929
450 MM POSICION 1



KJ17584
7,5 M. CONNECTOR



KJ16944
600 MM. P.3



KJ16930
550 MM POSICION 2



KJ10017
CABLE FOR LASER



KJ16630
F5500 A 4,8X8MM



KJ10016
DIG. LASER OPTICO



KJ16644
REP. CHUPONA



KJ19496
SD 05 MULTI



KJ12245, KJ16053
KJ10379, KJ10039



KJ18320
KJ18887



KJ12463
SENSORS



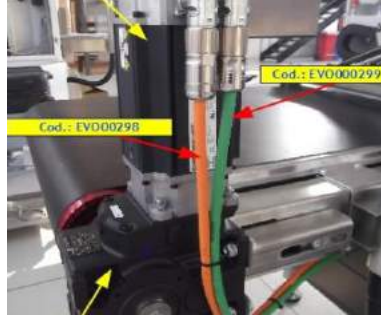
MAKİNE, YEDEK PARÇA VE
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MACHINE, SPARE PARTS AND PACKING
TOOLS



MACHINE, SPARE PARTS AND PACKING TOOLS

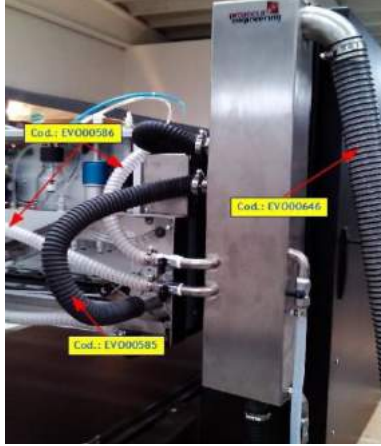
PROJECTA digital printing machines consumables

EVO00223 -
Reducer without
motor



EVO00240 - Manometer
EVO00205 - Regulator
EVO00239 - Vad
EVO00228 - Valve

EVO00585 -
PROTAPE
mm 38 tube



EVO00227 - Depressure regulator

EVO00586 -
PROTAPE
mm 25 tube

EVO00646 -
mm 60 tube



EVO00400 - TYGON yellow tube

EVO00010 - 760X6670
EVO00045 - 740X7770
EVO00046 - 760X8870



EVO00321 - Filter 10 Micron
PALL EVO00321 - Filter 10 Micron
ZEMPURE



EVO00322 - Filter 5 Micron
PALL EVO00322 - Filter 5 Micron
ZEMPURE



Special Hoses For Digital Printing



MACHINE, SPARE PARTS AND PACKING TOOLS

PRESSLER VE GENEL YEDEK PARÇALAR PRESSES AND PRESS SPARES



Her tür press ve press yedek parçaları ile ilgili servislerimiz mevcuttur. Birlikte çalışmakta olduğumuz İtalyan firmalar, her tür ebat ve özellikle pressle ilgili olarak rejenerasyon çalışması yapabilecek kapasite ve bilgi birikimine sahiptir.

We can service about any type of press and press spare parts. Our partner companies from Italy can work on machines of all sizes and guarantee all the regeneration works. The technical expertise and capacity of our partners staff are determining to this purpose; their expertise is recognized and fully consolidated in the field of ceramic industry.

SPARES FOR STORAGE MACHINES

PNEUMATIC PUMP WITH STAINLESS STEEL PANEL

WIDE RANGE OF PULLEY, SHAFT, GEAR, COMPONENTS FOR CERAMIC LINES TRANSPORT PLANTS

SALES AND REGENERATION OF EXCHANGER, SALES OF FILTER FOR OIL

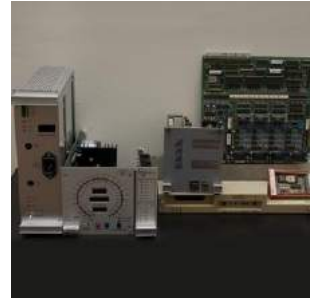


SPARES FOR KILN

PRODUCTION OF HYDRAULIK PISTON AND CYLINDER

ELECTRIC AND ELECTRONIC DEVICES FOR AUTOMATIC MACHINES

KIT OF GASKET AND SEALS TO MAJOR DIAMETER



MAKİNE, YEDEK PARÇA VE
PAKETLEME ELEMANLARI
MACHINE, SPARE PARTS AND PACKING
TOOLS



MACHINE, SPARE PARTS AND PACKING TOOLS

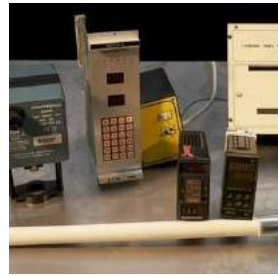
PRESSLER VE GENEL YEDEK PARÇALAR **PRESSES AND PRESS SPARES**

ENCODER, CABLE AND ACCESSORIES ENCODERS



COVER AND LOGIC ELEMENTS FOR HYDRAULIC CERCUIT

THERMOREGULATORS, BURNER IGNITION AND FLAME SENSING CON. PANEL, SERVOMECHANISM, THERMOCOUPLE



PRODUCTION OF CUSTOMIZED HYDRAULIK BLOCK WITH VALVES AND

SALES AND RIGENERATION OF HYDRAULIK PUMPS AND HYDRAULIK MOTORS

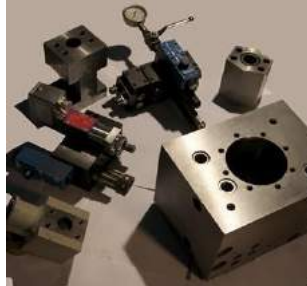


SOLENOID VALVE

VARIOUS ARTICLE ON THE TRANSMISSION



WIDE RANGE OF THERMOSEALING POLYURETHANE BELT



SALES AND RIGENERATION ACCUMULATORS, SPARES FOR ACCUMULATORS



HYDRAULIK AND PNEUMATIC SAFETY VALVES AND PRESSURE CHECK VALVES, BLOCK FOR



PROPORTIONAL VALVES MOOG, VICKERS, REXROTH AND MORE



MACHINE, SPARE PARTS AND PACKING TOOLS

ROTATİF (ROTOCOLOR) BASKI BIÇAKLARI DOCTOR BLADES



Seramikte kullanılmak üzere, İsveç çeliğinden özel olarak üretilen baskı bıçaklarını stoklarımızdan temin edebilirsiniz.

We are able to supply the rotary screen printing blades from our warehouse which are specially produced by high qualified Sweden steel.



BAŞLICA ROTATİF BASKI BIÇAĞI ÖLÇÜLERİ STANDARD DOCTOR BLADE DIMENSIONS

800*40*0,20
800*40*0,20 Delikli

800*40*0,15
800*40*0,15 Delikli

700*40*0,15
700*40*0,15 Delikli

700*40*0,20
700*40*0,20 Delikli

40*0,20 Kesilebilir
40*0,15 Kesilebilir



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