

ÜRÜN ÖZELLİKLERİ - Product Characteristics		SİLİS KUMU / Silica Sand																							
TESLİM YERİ - Delivery Place	ÜRÜN TANIMI - Product Name	İZO KUMU		DC KUMU	BC KUMU	MERSİN		SS KUMU	CEE KUMU	MİSİR KUMU	SARI KUM	ÇATALCA-YALIKÖY		BEYAZ KUM	KURUÇAŞİLE	LÜLEBURGAZ		BİLEÇİK		BOROSİLİKAT	MİSİR/EL-ARİSH				
ÜRÜN KODU - Product Code	ÜRÜN TANIMI - Product Name	KM-101	KM-102	KM-103	KM-104	KM-105	KM-106	KM-107	KM-108	KM-109	KM-110	KM-111	KM-112	KM-113	KM-114	KM-115	ME-101	ME-102	ME-103	ME-104					
KİMYASAL ÖZELLİKLER (%) - Chemical Content (%)																									
SiO ₂	96.00 min	97.15 (±0.25)	97.15 (±0.25)	98.25 (±0.25)	99.30 (±0.25)	99.30 min	99.75 (±0.25)	96.0 min	91.0 min	98.8 min	99.0 min	99.0 min	99.5 min	96.40	95.45	99.25	99.00	99.00	99.00	99.00					
Al ₂ O ₃	1.50 max	1.25 (±0.08)	1.05 (±0.08)	0.65 (±0.15)	0.35 max	0.34 max	0.07 (±0.08)	1.00 (± 0.2)	3.90 min.	1.0 max	0.45(±0.10)	0.35 max	0.25 max	2.07 (±0.10)	2.40 (±0.10)	0.50	0.20	0.50	0.20	0.20					
Fe ₂ O ₃	0.250 max	0.117(±0.005)	0.083(±0.005)	0.060(±0.005)	0.035 max	0.015 max	0.013(±0.003)	0.110 (± 0.02)	0.060 max	0.050 max	0.090(±0.010)	0.030 (±0.005)	0.020 max	0.115 (±0.005)	0.125 (±0.005)	0.013 max	0.115(±0.010)	0.030 max	0.100 max	0.100 max					
TiO ₂	0.25 max	0.08	0.06	0.06	0.03	0.02	0.02	0.20	0.05	0.10	0.10	0.10	0.05	0.06	0.07	0.050	0.070	0.040	0.050						
CaO	0.50 max	0.08	0.08	0.20 (±0.05)	0.03	0.01	0.00	0.03	0.04	0.02	0.05	0.02	0.02	1.00 max.	1.00 max.	0.02	0.05	0.03	0.02						
MgO	0.50 max	0.14	0.17	0.09	0.04	0.02	0.01	0.02	0.03	0.02	0.02	0.02	0.03	0.02	0.03	0.01	0.01	0.01	0.01						
Na ₂ O	0.03	0.03	0.03	0.02	0.01	0.01	0.01	0.15	(Na ₂ O+K ₂ O)	0.04	0.02	0.01	0.02	<0,01	<0,01										
K ₂ O	1.00 max	0.05	0.05	0.25 (±0.05)	0.10	0.02	0.01	0.50	3.0 min	0.15	0.03	0.05	0.05	1.00 max.	1.00 max.										
L.O.I	1.00 max	0.55	0.55	0.45	0.20	0.13	0.12	0.25	0.25	0.23	0.13	0.12				0.25	0.20	0.15	0.10						
TANE BOYUTU (%) - Particle Size (%)																									
>1000 microns																								0.0	
>500 microns	1.0 max	1.0 max	1.0 max	0.5 max	0.3 max	1.0 max.	0.9 max	1.0 max	1.0 max	1.0 max	1.0 max	1.0 max	0.5 max	0.5 max	0.5 max	0.5 max								85.0	
>425 microns																	0.0	2.0 max.	0						
<500, >106 microns	80.0 (±5.0)	80.0 (±5.0)	80.0 (±5.0)	85.0 (±5.0)	85.0 (±5.0)	92.0 (±5.0)	95.0 (±5.0)	48.0 max	40.0 max	48.0 max															15.0
<106 microns	20.0 max	20.0 max	20.0 max	20.0 max	20.0 max	20.0 max	20.0 max	18.0 max	10.0 max	5.0 max.							7.0 max	15.0 max	1.0	4.0 max.	2.0 max.				
<75 microns	8.0 (±2.0)	8.0 (±2.0)	8.0 (±2.0)	7.0 (±2.0)	6.0 (±2.0)	3.0 (±2.0)	1.0 (±1.0)																		
RUTUBET (%) - Humidity (%)	6.0 max	6.5 max	6.5 max	5.5 max	6.5 max	5.0 max	5.0 max	8.0 max	8.0 max	8.0 max	8.0 max	15.0 max	25.0 max	7.5 max	4.0 max	6.0 max	1.0 max	1.0 max	1.0 max	1.0 max	1.0 max	1.0 max	1.0 max	1.0 max	

ÜRÜN ÖZELLİKLERİ - Product Characteristics		DOLOMIT / Dolomite									KALKER / Limestone						DOLOMIT TOZU / Dolomite Powder								
TESLİM YERİ - Delivery Place	ÜRÜN TANIMI - Product Name	YAVCA-CA	ALANYA-BC	YAVCA-DC	MARM.-CEE	LÜLEBURGAZ	KAPAKLI-DC	ÇUKUR-CA	DEREŞİM-DC	BİLEÇİK	AFYON-CEE	MADASI	MARMARA-CEE	ERÇEL-CA	MERSİN	ERÇEL-CEE	ERÇEL-DC	LÜLEBURGAZ	KAP. CA, DC	GÜLN. CA, DC	BZYK, CEE	MERSİN	BİLEÇİK	LÜLEBURGAZ	
ÜRÜN KODU - Product Code	ÜRÜN TANIMI - Product Name	DT-201	DT-202	DT-203	DT-204	DT-205	DT-206	DT-207	DT-208	DT-209	KR-301	KR-302	KR-303	KR-304	KR-305	KR-306									
KİMYASAL ÖZELLİKLER (%) - Chemical Content (%)																									
SiO ₂	0.50 max	0.15 max	0.50 max	0.12 max.	0.30 max.	0.55 max.	0.43	0.02	0.10		0.40 max	0.40 max	0.30 max	0.20 max.	0.42	0.10									
Al ₂ O ₃	0.15 max	0.10 max	0.15 max	0.05	0.15	0.12	0.13	0.03	0.05		0.10 max	0.10 max	0.10 max	0.08	0.19	0.05									
Fe ₂ O ₃	0.060 max	0.020 max	0.065 max	0.020 max	0.075 (± 0.010)	0.055 max	0.100 max	0.020 max.	0.040 max.	0.025 max	0.035 max	0.040 max	0.025 max	0.040 (± 0.005)	0.100 max	0.020 max.									
CaO	31.60 (±0.20)	31.35 (±0.40)	31.70 (±0.30)	32.70 (± 0.5)	31.20 (± 0.2)	31.50 (± 0.2)	32.1	32.0	33.50	55.30(±0.50)	55.30(±0.50)	55.30(±0.50)	54.50 (± 0.5)	54.0 min.	54.0 min.	54.0 min.									
MgO	20.40 (±0.40)	20.80 (±0.50)	20.60 (±0.40)	19.50 (± 0.5)	20.60 (± 0.2)	20.20 (± 0.2)	20.4	20.6	19.40	040(±0.10)	040(±0.10)	045(±0.10)	0.5	0.15											
TANE BOYUTU (%) - Particle Size (%)																									
>2000 microns	0			0	0	0	0	0	0	0	0	0	0	0	0	0									
>1700 microns	0.5 max	0	0											0.5 max		2.0 max	2.0 max								
>106 microns																									
<106 microns	30.0 max	30.0 max	30.0 max	45.0 max	26.0 max	50.0 max	25.0 max	40.0 max	40.0 max		20.0 max	20.0 max	20.0 max	22.0 max	30.0 max	50 max.									
<75 microns	15.0 (±4.0)	16.0 (±5.0)	20.0 (±4.0)	30.0 max	22.0 max	43.0 max	12.0 (±4.0)	12.0 max	10.0 (±3.0)	10.0 (±3.0)	10.0 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max									
RUTUBET (%) - Humidity (%)	2.20 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max	1.20 max	1.00 max	1.00 max	1.00 max	1.00 max	1.00 max									

DOLOMIT TOZU / Dolomite Powder		
MERSİN	BİLEÇİK	LÜLEBURGAZ
DOLOMIT TOZU / Dolomite Powder		
DT-501	DT-502	DT-503
0.40	0.86	0.54
0.15	0.26	0.30
0.100	0.186	0.105
31.30	33.60	32.10
20.40	18.30	19.30
5.0	6.0	8.0
95.0	94.0	92.0
2.0 max.	1.0 max.	5.0 max.

ÜRÜN ÖZELLİKLERİ - Product Characteristics		FELDSPAT / Feldspar				KAOLEN / Kaolin				KUVAR / Quartz	BOKSİT / Bauxite
TESLİM YERİ - Delivery Place	ÜRÜN TANIMI - Product Name	MILAS -GÜLLÜK		BALIKESİR - SINDIRGI		BİLEÇİK		ÇİNE		MILAS	DEREKÖY
ÜRÜN KODU - Product Code	ÜRÜN TANIMI - Product Name	STANDART	MIX	ÇAMLIK	DÜVERTEPE KAOLENİ	KN-601	Kuvars				
KİMYASAL ÖZELLİKLER (%) - Chemical Content (%)											
SiO ₂	68.50	67.75	80.00	66.00	70.00	80.00	78.20 (± 0.40)	min 99.00	max 4.50		
Al ₂ O ₃	18.00	18.35	11.60	24±1.0	min 20.0	13.00	18.50 (± 0.30)	max 0.10	min 51.0		
TiO ₂	max 0.30	0.30	0.10 max 0.16	0.50 max	0.50 max	0.50 max	0.19 max.	0.01	2.0 - 4.0		
Fe ₂ O ₃	max 0.18	0.18	0.13 max 0.20	0.50 max	0.70 max	0.50 max	0.40 max.	max 0.040	min 24.0		
CaO	0.60	0.51	0.45	0.04	0.04	0.04	CaO+MgO=0.50	0.04	0.05- 0.10		
MgO	0.20	0.13	0.10	0.04	0.04	0.04	max.	0.00	0.40		
Na ₂ O	9,65 min 9,50	7,60 min 7,00	min 6,70	0.04	0.04	0.04	Na ₂ O+K ₂ O=0,20	max 0,15	0.30		
K ₂ O	0.38	2.70	0.450	0.06	0.05	0.05	max.	0.04	0.10		
SO ₃	0.12	0.24	0.130	0,50max	0,70max	0,50 max	0,40 max.				
L.O.I	0,15-0,20	0,30-0,40	0,15-0,20	9.00	8.00	5.00		0.17	10,0 - 12,0		
MİNEROLOJİK ÖZELLİKLER (%) - Mineralogic Content (%)											
Kaolinit - Kaolinite		53-56		48-52		36-38					
Albit - Albite		75-78		55-60		45-55		0,10-0,20		0,10	
Ortoklas - Orthoclase		2-4		20-25		2-3		0,10-0,30		0,20	
Serbest Kuvars - Free Quartz		20-22		18-20		35-45		40-44		48-50	
Anortit - Anorthite		2-3									
TANE BOYUTU (%) - Particle Size (%)											
AMBALAJ - Packing		Dökme / Bulk		Dökme-Torbali / Bulk - BigBag		Dökme / Bulk		Dökme - Bulk			
RUTUBET (%) - Humidity (%)											
Yaz - Summertime		max %5,0		max %5,0		max %6,0					
Kış - Wintertime		max %9,0		max %9,0		max %10,0					
FİZİKSEL ÖZELLİKLER - Physical Properties											
Döküm Özelliği - Casting Properties (C°)		1220 ±10									
Pişirme Rengi - Fired Colour		Beyaz		Beyaz		Beyaz					
Litre Ağırlığı - Volumetric Weight (gr/l)		1780 ±20		1750 ±20		1710 ±30					
Viskozite - Viscosity (cps)		510 - 535		470 - 490		530 - 550					
Katı Konstrasyonu - Casting concentration (%)		72 ±2		65 ±5		70 ±5					
Optimum Elektrolit - Optimum Electrolyte (%)		0,43		0,11		0,11					
Kuru Küçülme - Dry Shrinkage (%)		1,0 ±0,50		1,0 ±0,50		0,50 ±10					
Toplam Küçülme - Total Shrinkage (%)		2,5 ±0,50		2,0 ±0,50		0,70 ±10					
Deformasyon - Deformation (mm)		8-9		7-9		3-4					
Su emme - Water Absorption (%)		27.00		22.00		28.00					
Kuru Mukavemet - Dry Strength (kg/cm2)		8-10		7-8		7-8					

ÜRÜN ÖZELLİKLERİ - Product Characteristics		İNCE KUM / Fine Sand			
TESLİM YERİ - Delivery Place	ÜRÜN TANIMI - Product Name	MERSİN	BİLEÇİK	YALIKÖY	LÜLEBURGAZ
ÜRÜN KODU - Product Code	ÜRÜN TANIMI - Product Name	İK-401	İK-402	İK-403	İK-404
KİMYASAL ÖZELLİKLER (%) - Chemical Content (%)					
SiO ₂				67.94	87.85
Al ₂ O ₃	7.5	17.20	18.25	7.54	
TiO ₂	0.50	0.190	0.52	0.65	
Fe ₂ O ₃	0.600	0.950	2.807	0.500	
CaO	6.00	0.96	0.81	0.05	
MgO	2.50	0.10	0.26	0.08	
Na ₂ O	0.05	0.04	1.52	0.08	
K ₂ O	3.0				