

Aşındırıcıların Kimyasal Kompozisyonları Chemical Composition of Blasting Abrasives

(ağırlık olarak/ by weight)

Kimyasal Karışım/ Chemical Mix	Kum/ Sand*	Staurolite	Garnet	Olivin/ Olivine	Specular Hematite /L	Kömür Curufu/ Coal Slag	Laal Taşı/ Copper	Nikel Curufu/ Nickel slag	Cam Tozu/ Crushed Glass	Celik Grit/ Steel Grit	Alüminyum Oksit/ Aluminium Oxide
Silicon Dioxide ** (SiO ₂)	90-100%	29%	36-38%	39-46%	<1%	45-51%	45%	37-51%	72.5%	0.3-1.3%	0.5-1.7%
Crystalline Silica (SiO ₂)	49-96%	<5.0%	<0.8%	<0.3%	<1.0%	<1.0%	0.1%	<0.1%			
Aluminium Oxide (Al ₂ O ₃)		45%	20-26%	0.2-2.3%	0.34%	14-26%	7.2%	1.5-6.6%	0.16%		92-97%
Specular hematite (Fe ₂ O ₃) or (FeO)		14% (Fe ₂ O ₃)	30-33% (Fe ₂ O ₃) or (FeO)	6 - 11 % (Fe ₂ O ₃) or (FeO)	98.18% (Fe ₂ O ₃)	18-21% (Fe ₂ O ₃)	23.3 % (Fe ₂ O ₃)	12-20% (Fe ₂ O ₃)	0.2% (Fe ₂ O ₃)		0.1-1.5% (Fe ₂ O ₃)
Calcium Oxide (CaO)		0.07%	1.0- 2.0%	0.2- 1.2%	0.06%	4.3- 8.2%	19.6%	0.5- 2.5%	9.18%		0.14- 0.18%
Magnesium Oxide (MgO)		0.75%	1.0-6.0%	39-49%	0.05%	1.0-2.0%	3.7%	4.7-33%	3.65%		0.23- 0.30%
Titanium Oxide (TiO ₂)		4.2%	<2.0%		0.18%	<1.3%					1.6-4.0%
Potassium Oxide (K ₂ O)		0.1%				<1.9%		<1.3%	0.12%		0.05- 0.08%
Sodium Oxide (Na ₂ O)		0.18%				<1.1%			13.2%		0.07- 0.12%
Manganese Oxide (MnO)		0.1%	1.0%			<0.06%					
Iron (Fe)						<0.4%					>95.0%
Carbon (C)											0.7-1.3%
Manganese (Mn)					0.026%						0.5-1.3%
Sulfur (S)					0.026%						<0.05%
Sulfur Trioxide (SO ₃)						<0.6%			0.39%		
Zirconium (Zr)		3.3%	<0.2%								
Zircon Oxide (ZrO)			<1%								
Phosphorous (P)					0.011%						<0.05%
Chromium (Cr)				0.1-0.4%	0.002%						<0.2%
Nickel (Ni)				0.1-0.3%	0.009%						<0.2%
Radioactivity Picocuries/gram						15-19.8%					

* Kumun içinde Silica'nın dışında su/nem bulunmaktadır, yüksek sıcaklık ile bu su/nem giderilebilmektedir. The remaining portion of the silica sand abrasive composition consists of water or moisture content and loss on ignition.

** Silikon Dioksit'in kimyasal içeriğinin tamamını kristal ve kristal olmayan Silika oluşturmaktadır. The silicon dioxide chemical includes both non-crystalline and crystalline silica.

*** Bilgilerin kaynağı firma broşürleridir ve malzeme güvenlik bilgileri üreticilerden alınmıştır. Source of data is from company brochures and material safety data sheets from suppliers.

