



Company: Bilfer Madencilik A.S. (Bilfer Mining Inc.)

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Turkey

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Ownership: Privately held company.

Brief Company History:

1938: The company was established by Mr. Sadullah Bilgin. Chrome ore production and exports started in 1938 and since then Bilfer has become a major chrome and iron ore producer in Turkey.

No. of Mines Controlled: 25 (twenty-five) chrome concessions in 5 Turkish provinces.

Names of Mines: Eskikoy
Hekimhan Bicir
Karacesme
Karadere
Kizildag
Kuluncak
Pozanti

(Please refer to the Mine Details Sheet for further information)

Average Chemical Composition of the Grades of Chromite Ore Produced (%)

	Cr ₂ O ₃	SiO ₂	FeO	CaO	Al ₂ O ₃	MgO	P	Cr: Fe
Run-of-Mine								
Run-of-mine ore	20-50	5-20	14-17	0.5-1	12-20	14-18	<0.007	>2.4
Marketable Product								
Concentrates:								
a) refractory	53	1.7	18	0.12	16	17	<0.007	>2.5
b) metallurgical	48	5	15	0.5	19	18	< 0.007	>2.7



**Average Chemical Composition of the Grades
of Chromite Ore Produced (%) Contd.**

	Cr ₂ O ₃	SiO ₂	FeO	CaO	Al ₂ O ₃	MgO	P	Cr: Fe
Metallurgical grade:								
a) high alumina	38-40	8-9	15	0.5	18	18	<0.007	> 2.5
b) standard grade	34-42	12-15	14	0.6	8	21	<0.007	>2.8
Refractory grade:								
a) fines	36-40	6-9	15	0.5	18	17	<0.007	> 2.5
b) lumps	38-41	4-6	-	-	-	-	-	-
Foundry sand grade:	52-55	1.0	18	0.05	14	14	-	-

Integrated with a Chrome Alloys Producer: No

Key Contact Names within the Company: Mrs. Afife Özel Chairman of the Board
Mr. M. Sözer Özel President and Chief Executive Officer

Selling Agents: None

Ports Used for Export: Bilfer uses the port of Iskenderun for bulk shipments and the port of Mersin for container shipments. At the port of Iskenderun, Bilfer owns and operates stocking, upgrading, mixing, drying, packing and loading facilities capable of handling all of the company's chrome ore production.



MINE DETAILS

TURKEY

Mine Name: Seven Mines: Eskikoy, Hekimhan Bicir, Karacesme, Karadere, Kizildag, Kuluncak and Pozanti.

Name of Deposit & Location: The mines are located in the provinces of Adana (Pozanti Mine), Elazig (Karacesme Mine) Malatya (Hekimhan Bicir, Karadere and Kuluncak Mines) and Sivas (Eskikoy and Kizildag Mines).

Geology of Occurrence: The chromite deposits are podiform.

Ore Body Description: (not available)

Mining Techniques Used: Of the seven mines operated by Bilfer, five are surface and two are underground mines.

Reserves: Bilfer has over 50 million tonnes of chromite ore reserves from its 25 concessions. The seven operating mines have economic and mineable chromite ore reserves of 15 million tonnes comprising 3 million tonnes proven and 12 million tonnes probable.

Run-of-Mine Production Capacity: Combined production capacity is 500 000 tonnes per year from the seven operating mines.

Ore Dressing & Beneficiation: Bilfer operates beneficiation plants at Eskikoy, Kuluncak and Iskenderun. Each plant utilizes heavy media separation and gravity separation techniques.



MINE DETAILS

TURKEY

Type of Ore Produced: Metallurgical (high-alumina, lump & concentrate)
Chemical, Refractory (fines, lump & concentrates),
Foundry Sand
