

## **Foundry Chromite Sand:**

The superlattice of chromite  $[(Fe_xMg_{1-x})O].[(Cr_xAl_{1-x})_2O_3]$  has a melting point in the range of 2185 to 2320°C along with high bulk density, high thermal conductivity and superior corrosion resistance against molten metals such as ferrous alloys. It is, therefore, a proper choice as foundry sand for steel casting. AKTA Co. has been able to introduce a variety of chromite sands into the global market using a state of the art process.





## Foundry Sands and Flours Technical Datasheet

Product Name	Tap Density (kg/m <sup>3</sup> )	Acid Demand @ pH 7 (cc)	pH	Chemical Analysis (wt.%)				
				Cr <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	MgO	L.O.I
AKTASAND-TQCr60	2.6	≥ 3	7 - 9	62.70	7.44	≥ 1	12	≥ 0.5
AKTASAND-TQCr55	2.6	≥ 3	7 - 9	54.15	11.21	≥ 1	12.11	≥ 0.5
AKTASAND-TQCr50	2.6	≥ 3	7 - 9	49.73	13.83	≥ 1	10.91	≥ 0.5
AKTASAND-TQCr45	2.6	≥ 3	7 - 9	44.66	17.85	≥ 1	12.34	≥ 0.5
AKTASAND-TQCrAl60	2.6	≥ 3	7 - 9	62.47		≥ 1	12.98	≥ 0.5
AKTASAND-Cr55	2.4	-	7 - 9	55.85	8.21	≥ 3	13.74	≥ 1
AKTASAND-Cr50	2.4	-	7 - 9	50.74	12.16	≥ 3	14.54	≥ 1
AKTASAND-Cr45	2.3	-	7 - 9	43.60	16.79	≥ 3	14.67	≥ 1
AKTASAND-Cr40	2.3	-	7 - 9	38.13	21.65	≥ 3	14.37	≥ 1
AKTASAND-CrAl55	2.3	-	7 - 9	57.38		≥ 3	15.54	≥ 1
AKTASAND-MQCr50	2.3	-	7 - 9	50.25	11.9	≥ 4	15.25	≥ 1
AKTASAND-MQCr45	2.3	-	7 - 9	44.3	16.03	≥ 4.5	16.29	≥ 1
AKTASAND-MQCrAl55	2.3	-	7 - 9	56.91		≥ 5.5	18.28	≥ 1
AKTAMAT-TQCr60	2.5	≥ 3	7 - 9	60.50	8.62	≥ 1	11.38	≥ 0.5
AKTAMAT-HQCr55	2.4	-	7 - 9	56.88	9.58	1.87	13.61	≥ 1

The technical data represent the average of the current production. During the test has to be considered a fluctuation of these values ± 5%

☎ 02189778973

☎ 02128422235

🌐 www.akta.ir

✉ sales@akta.ir



## **Ladle Filler Sand:**

Ladle filler sands of AKTA Co. which are a combination of high-purity refractory materials, fill the nozzle of sliding gate systems. The main goal is to achieve a high free opening rate and prevention of clogging when the sliding gate is opened. AKTA Co. engineers make sure that the most important factor, which is the thickness of the sintering layer between the melt and the top of the sand, is controlled. The quality and size of the sands, which depend on the ladle size, can be customized according to the customer's requests.





## Ladle Filler Sands Technical Datasheet

Product Name	Tap Density (kg/m <sup>3</sup> )	Coating Status	Ref. (Cone No.)	Chemical Analysis (wt.%)				
				Cr <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	MgO	C
AKTASAND-LF-Cr54	2 – 2.3	Coated	42	53.9	7.8	13.1	10.5	≥ 1
AKTASAND-LF-Cr48	2 – 2.3	Coated	40	48.1	7.1	19.8	9.7	≥ 1
AKTASAND-LF-Cr42	2 – 2.3	Coated	36	41.9	6.2	29.4	8.5	≥ 1
AKTASAND-LF-Cr42	2 – 2.3	Mixed	36	41.9	6.2	29.4	8.5	≥ 2
AKTASAND-LF-Cr38	1.9 – 2.2	Coated	35	38.4	5.6	35.3	7.4	≥ 1
AKTASAND-LF-Cr38	1.9 – 2.2	Mixed	35	38.4	5.6	35.3	7.4	≥ 2
AKTASAND-LF-Cr32	1.9 – 2.2	Coated	34	32.4	5.1	44.9	6.6	≥ 1
AKTASAND-LF-Cr32	1.9 – 2.2	Mixed	34	32.4	5.1	44.9	6.6	≥ 2
AKTASAND-LF-Cr22	1.8 – 2.1	Coated	33	21.6	3.1	43.1	5.5	≥ 1
AKTASAND-LF-Cr22	1.8 – 2.1	Mixed	33	21.6	3.1	43.1	5.5	≥ 2
AKTASAND-LF-Cr15	1.8 – 2.1	Mixed	32	14.4	2.1	73.8	3.8	≥ 2
AKTASAND-LF-Cr10	1.8 – 2.1	Mixed	31.5	10.8	1.6	79.6	2.8	≥ 2

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