FeSiMn FeMn FeSi

CHIATURMANGANUM GEORGIA
Georgian Ferroalloys

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CHIATURMANGANUM GEORGIA
Georgian Ferroalloys

YDD
Karagandy Ferroalloy Plant

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EASTERN EUROPE FERRO-ALLOYS 2021

YDD
Karagandy Ferroalloy Plant

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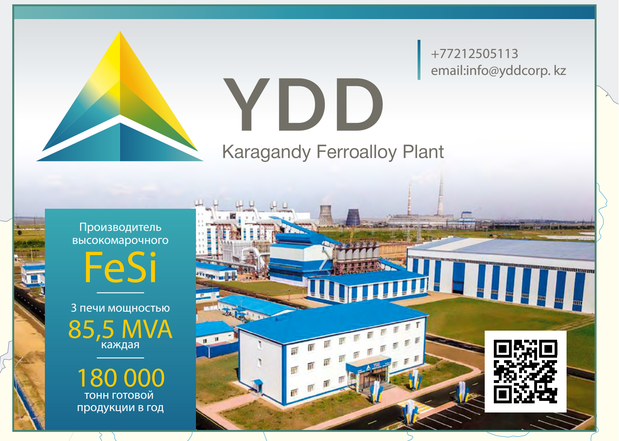

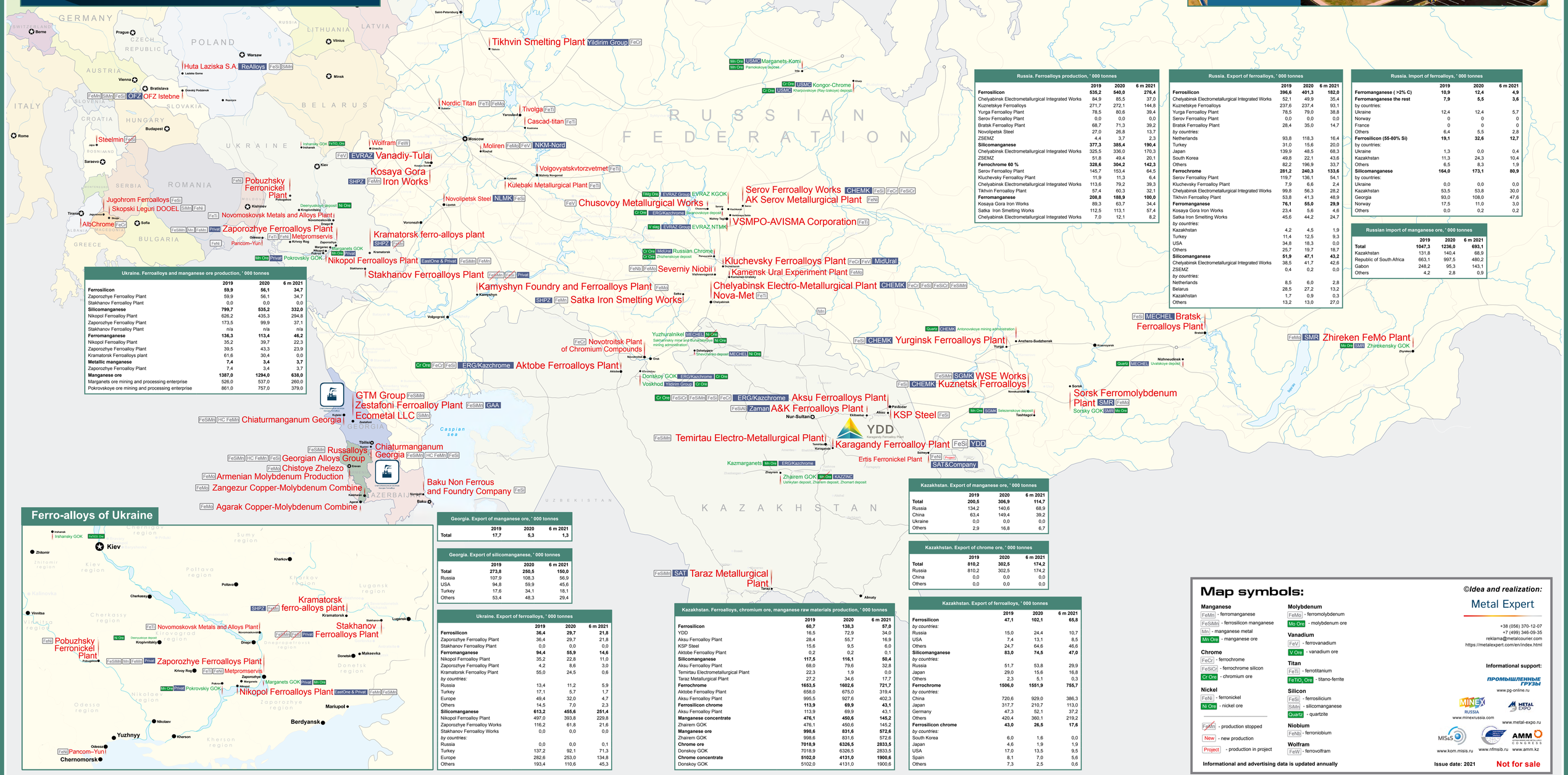

Russia. Ferroalloys production, ' 000 tonnes

	2019	2020	6 m 2021
Ferrosilicon	**535,2**	**540,0**	**276,4**
Chelyabinsk Electrometallurgical Integrated Works	84,9	85,5	37,0
Kuznetskye Ferroalloys	271,7	272,1	144,8
Yurga Ferroalloy Plant	78,5	80,6	39,4
Serov Ferroalloy Plant	0,0	0,0	0,0
Bratsk Ferroalloy Plant	68,7	71,3	39,2
Novolipetsk Steel	27,0	26,8	13,7
ZSEMZ	4,4	3,7	2,3
Silicomanganese	**377,3**	**385,4**	**190,4**
Chelyabinsk Electrometallurgical Integrated Works	325,5	336,0	170,3
ZSEMZ	51,8	49,4	20,1
Ferrochrome 60 %	**328,6**	**304,2**	**142,3**
Serov Ferroalloy Plant	145,7	153,4	64,5
Kluchevsky Ferroalloy Plant	11,9	11,3	6,4
Chelyabinsk Electrometallurgical Integrated Works	113,6	79,2	39,3
Tikhvin Ferroalloy Plant	57,4	60,3	32,1
Ferromanganese	**208,8**	**188,9**	**100,0**
Kosaya Gora Iron Works	89,3	63,7	34,4
Satka Iron Smelting Works	112,5	113,1	57,4
Chelyabinsk Electrometallurgical Integrated Works	7,0	12,1	8,2

Russia. Export of ferroalloys, ' 000 tonnes

	2019	2020	6 m 2021
Ferrosilicon	**396,6**	**401,3**	**182,0**
Chelyabinsk Electrometallurgical Integrated Works	52,1	49,9	35,4
Kuznetskye Ferroalloys	237,6	237,4	93,1
Yurga Ferroalloy Plant	78,5	79,0	38,8
Serov Ferroalloy Plant	0,0	0,0	0,0
Bratsk Ferroalloy Plant	28,4	35,0	14,7
by countries:			
Netherlands	93,8	118,3	16,4
Turkey	31,0	15,6	20,0
Japan	139,9	48,5	68,3
South Korea	49,8	22,1	43,6
Others	82,2	196,9	33,7
Ferrochrome	**281,2**	**240,3**	**133,6**
Serov Ferroalloy Plant	119,7	136,1	54,1
Kluchevsky Ferroalloy Plant	7,9	6,6	2,4
Chelyabinsk Electrometallurgical Integrated Works	99,8	56,3	28,2
Tikhvin Ferroalloy Plant	53,8	41,3	48,9
Ferromanganese	**76,1**	**55,0**	**29,9**
Kosaya Gora Iron Works	23,4	5,6	4,6
Satka Iron Smelting Works	45,6	44,2	24,7
by countries:			
Kazakhstan	4,2	4,5	1,9
Turkey	11,4	12,5	9,3
USA	34,8	18,3	0,0
Others	25,7	19,7	18,7
Silicomanganese	**51,9**	**47,1**	**43,2**
Chelyabinsk Electrometallurgical Integrated Works	38,5	41,7	42,6
ZSEMZ	0,4	0,2	0,0
by countries:			
Netherlands	8,5	6,0	2,8
Belarus	28,5	27,2	13,2
Kazakhstan	1,7	0,9	0,3
Others	13,2	13,0	27,0

Russia. Import of ferroalloys, ' 000 tonnes

	2019	2020	6 m 2021
Ferromanganese (>2% C)	**10,9**	**12,4**	**4,9**
Ferromanganese the rest	**7,9**	**5,5**	**3,6**
by countries:			
Ukraine	12,4	12,4	5,7
Norway	0	0	0
France	0	0	0
Others	6,4	5,5	2,8
Ferrosilicon (55-80% Si)	**19,1**	**32,6**	**12,7**
by countries:			
Ukraine	1,3	0,0	0,4
Kazakhstan	11,3	24,3	10,4
Others	6,5	8,3	1,9
Silicomanganese	**164,0**	**173,1**	**80,9**
by countries:			
Ukraine	0,0	0,0	0,0
Kazakhstan	53,5	53,8	30,0
Georgia	93,0	108,0	47,6
Norway	17,5	11,0	3,0
Others	0,0	0,2	0,2

Russian import of manganese ore, ' 000 tonnes

	2019	2020	6 m 2021
Total	**1047,3**	**1236,0**	**693,1**
Kazakhstan	131,8	140,4	68,9
Republic of South Africa	663,1	997,5	480,2
Gabon	248,2	95,3	143,1
Others	4,2	2,8	0,9

Ukraine. Ferroalloys and manganese ore production, ' 000 tonnes

	2019	2020	6 m 2021
Ferrosilicon	**59,9**	**56,1**	**34,7**
Zaporozhye Ferroalloy Plant	59,9	56,1	34,7
Stakhanov Ferroalloy Plant	0,0	0,0	0,0
Silicomanganese	**799,7**	**535,2**	**332,0**
Nikopol Ferroalloy Plant	626,2	435,3	294,8
Zaporozhye Ferroalloy Plant	173,5	99,9	37,1
Stakhanov Ferroalloy Plant	n/a	n/a	n/a
Ferromanganese	**136,3**	**113,4**	**46,2**
Nikopol Ferroalloy Plant	35,2	39,7	22,3
Zaporozhye Ferroalloy Plant	39,5	43,3	23,9
Kramatorsk Ferroalloys plant	61,6	30,4	0,0
Metallic manganese	**7,4**	**3,4**	**3,7**
Zaporozhye Ferroalloy Plant	7,4	3,4	3,7
Manganese ore	**1387,0**	**1294,0**	**638,0**
Marganets ore mining and processing enterprise	526,0	537,0	260,0
Pokrovskoye ore mining and processing enterprise	861,0	757,0	379,0

Ferro-alloys of Ukraine

Georgia. Export of manganese ore, ' 000 tonnes

	2019	2020	6 m 2021
Total	**17,7**	**5,3**	**1,3**

Georgia. Export of silicomanganese, ' 000 tonnes

	2019	2020	6 m 2021
Total	**273,8**	**250,5**	**150,9**
Russia	107,9	108,3	56,9
USA	94,8	59,9	45,6
Turkey	17,6	34,1	18,1
Others	53,4	48,3	29,4

Ukraine. Export of ferroalloys, ' 000 tonnes

	2019	2020	6 m 2021
Ferrosilicon	**36,4**	**29,7**	**21,8**
Zaporozhye Ferroalloy Plant	36,4	29,7	21,8
Stakhanov Ferroalloy Plant	0,0	0,0	0,0
Ferromanganese	**94,4**	**55,9**	**14,6**
Nikopol Ferroalloy Plant	35,2	22,8	11,0
Zaporozhye Ferroalloy Plant	4,2	8,6	3,0
Kramatorsk Ferroalloy Plant	55,0	24,5	0,6
by countries:			
Russia	13,4	11,2	5,9
Turkey	17,1	5,7	1,7
Europe	49,4	32,0	4,7
Others	14,5	7,0	2,3
Silicomanganese	**613,2**	**455,6**	**251,4**
Nikopol Ferroalloy Plant	497,0	393,8	229,8
Zaporozhye Ferroalloy Works	116,2	61,8	21,6
Stakhanov Ferroalloy Works	0,0	0,0	0,0
by countries:			
Russia	0,0	0,0	0,1
Turkey	137,2	92,1	71,3
Europe	282,6	253,0	134,8
Others	193,4	110,6	45,3

Kazakhstan. Ferroalloys, chromium ore, manganese raw materials production, ' 000 tonnes

	2019	2020	6 m 2021
Ferrosilicon	**60,7**	**138,3**	**57,0**
YDD	16,5	72,9	34,0
Aksu Ferroalloy Plant	28,4	55,7	16,9
KSP Steel	15,6	9,5	6,0
Aktobe Ferroalloy Plant	0,2	0,2	0,1
Silicomanganese	**117,5**	**116,1**	**50,4**
Aksu Ferroalloy Plant	68,0	79,6	32,8
Temirtau Electrometallurgical Plant	22,3	1,9	0,0
Taraz Metallurgical Plant	27,2	34,6	17,7
Ferrochrome	**1653,5**	**1602,6**	**721,7**
Aktobe Ferroalloy Plant	658,0	675,0	319,4
Aksu Ferroalloy Plant	995,5	927,6	402,3
Ferrosilicon chrome	**113,9**	**69,9**	**43,1**
Aksu Ferroalloy Plant	113,9	69,9	43,1
Manganese concentrate	**476,1**	**450,6**	**145,2**
Zhairem GOK	476,1	450,6	145,2
Manganese ore	**998,6**	**831,6**	**572,6**
Zhairem GOK	998,6	831,6	572,6
Chrome ore	**7018,9**	**6326,5**	**2833,5**
Donskoy GOK	7018,9	6326,5	2833,5
Chrome concentrate	**5102,0**	**4131,0**	**1900,6**
Donskoy GOK	5102,0	4131,0	1900,6

Kazakhstan. Export of manganese ore, ' 000 tonnes

	2019	2020	6 m 2021
Total	**200,5**	**306,9**	**114,7**
Russia	134,2	140,6	68,9
China	63,4	149,4	39,2
Ukraine	0,0	0,0	0,0
Others	2,9	16,8	6,7

Kazakhstan. Export of chrome ore, ' 000 tonnes

	2019	2020	6 m 2021
Total	**810,2**	**302,5**	**174,2**
Russia	810,2	302,5	174,2
China	0,0	0,0	0,0
Others	0,0	0,0	0,0

Kazakhstan. Export of ferroalloys, ' 000 tonnes

	2019	2020	6 m 2021
Ferrosilicon	**47,1**	**102,1**	**65,8**
by countries:			
Russia	15,0	24,4	10,7
USA	7,4	13,1	8,5
Others	24,7	64,6	46,6
Silicomanganese	**83,0**	**74,5**	**47,0**
by countries:			
Russia	51,7	53,8	29,9
Japan	29,0	15,6	16,8
Others	2,3	5,1	0,3
Ferrochrome	**1506,0**	**1551,9**	**755,7**
by countries:			
China	720,6	929,0	386,3
Japan	317,7	210,7	113,0
Germany	47,3	52,1	37,2
Others	420,4	360,1	219,2
Ferrosilicon chrome	**43,0**	**26,5**	**17,6**
by countries:			
South Korea	6,0	1,6	0,0
Japan	4,6	1,9	1,9
USA	17,0	13,5	9,5
Spain	8,1	7,0	5,6
Others	7,3	2,5	0,6

Map symbols:

Manganese
- FeMn - ferromanganese
- FeSiMn - ferrosilicon manganese
- Mn - manganese metal
- Mn Ore - manganese ore

Chrome
- FeCr - ferrochrome
- FeSiCr - ferrochrome silicon
- Cr Ore - chromium ore

Nickel
- FeNi - ferronickel
- Ni Ore - nickel ore

- FeMn - production stopped
- New - new production
- Project - production in project

Molybdenum
- FeMo - ferromolybdenum
- Mo Ore - molybdenum ore

Vanadium
- FeV - ferrovanadium
- V Ore - vanadium ore

Titan
- FeTi - ferrotitanium
- FeTiO Ore - titano-ferrite

Silicon
- FeSi - ferrosilicium
- SiMn - silicomanganese
- Quartz - quartzite

Niobium
- FeNb - ferroniobium

Wolfram
- FeW - ferrovolfram

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