



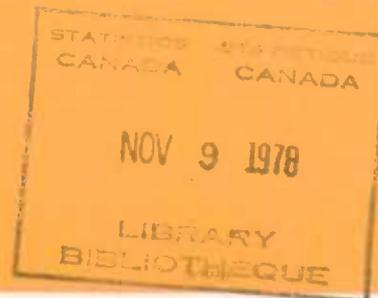
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Service Bulletin

Bulletin de service

Minerals

Minéraux



Vol. 6, No. 6

CONSUMPTION OF FERRO-ALLOYS AND ADDITION AGENTS, (1) 1977

CONSUMPTION DE FERRO-ALLIAGES ET DE PRODUITS D'ADDITION(1), 1977

TABLE 1. Consumption of Ferro-alloys and Addition Agents, 1977

TABLEAU 1. Consommation de ferro-alliages et de produits d'addition, 1977

	Used during 1977 — Utilisé pendant l'année 1977			
	Gross weight	Metal content	Gross weight	Metal content
	Poids brut	Métal contenu	Poids brut	Métal contenu
	tons of 2,000 pounds		metric — tonnes — métriques	
	tonnes de 2,000 livres			
Ferro-alloys — Ferro-alliages:				
1. Ferrobore — Ferrobore	10	1	9	1
2. Ferrochrome (including Chrom-x) — Ferrochrome (y compris Chrom-x):				
High carbon — Forte teneur en carbone	23,523	13,556	21 340	12 298
Low carbon (maximum 2% carbon) — Faible teneur en carbone (maximum 2 % de carbone)	7,821	4,739	7 095	4 299
3. Ferromanganese — Ferromanganèse:				
High carbon (over 3% carbon) — Forte teneur en carbone (plus de 3 % de carbone)	71,542	..	64 902	..
Medium carbon — Teneur moyenne en carbone	7,605	..	6 899	..
Low carbon (maximum 0.75% carbon) — Faible teneur en carbone (maximum 0.75 % de carbone)	550	..	499	..
4. Ferromolybdenum — Ferromolybdène	313	204	284	185
5. Ferrophosphorus — Ferrophosphore	2,100	..	1 905	..
6. Ferroselenium — Ferrosélénium
7. Ferrosilicon(2) — Ferrosilicium(2):				
Low silicon grade (under 45% silicon) — Faible teneur en silicium (moins de 45 % de silicium)	10,819	..	9 815	..
Medium silicon grade — Teneur moyenne en silicium	34,545	..	31 339	..
High silicon grade (over 55% silicon) — Forte teneur en silicium (plus de 55 % de silicium)	24,655	..	22 367	..
Sil-X	(3)	..	(3)	..
8. Ferrotitanium — Ferrotitane	45	28	41	25
9. Ferrotungsten — Ferrotungstène	121	(3)	110	(3)
10. Ferrovanadium	454	363	412	329
11. Ferrozirconium	427	57	387	52
12. Silico manganese — Silico manganèse	11,207	..	10 167	..
13. Spiegeleisen	(3)	..	(3)	..
14. Other, including ferrocolumbium, ferrotantalum-columbium, etc. — Autres, y compris ferrocolumbium, ferrotantale-columbium, etc.	28,777	970	26 106	880

See footnote(s) at end of Table 2. — Voir note(s) à la fin du tableau 2.

November — 1978 — Novembre
5-3304-755

TABLE 1. Consumption of Ferro-alloys and Addition Agents, 1977 - Concluded

TABLEAU 1. Consommation de ferro-alliages et de produits d'addition, 1977 - fin

	Used during 1977 - Utilisé pendant 1977			
	Gross weight	Metal content	Gross weight	Metal content
	Poids brut	Métal contenu	Poids brut	Métal contenu
	tons of 2,000 pounds		metric - tonnes - métriques	
	tonnes de 2,000 livres			
Addition agents - Produits d'addition:				
15. Aluminum metal - Aluminium-métal	6,058	..	5 496	..
16. Calcium-manganese silicon - Silicium au calcium-manganèse ...	54	..	49	..
17. Calcium silicon - Silicium au calcium	735	..	667	..
18. Chrome ore - Minerai de chrome	171	43	155	39
19. Cobalt metal - Cobalt-métal	75	..	68	..
20. Manganese metal - Manganèse-métal	1,965	..	1 783	..
21. Molybdic oxide - Oxyde molybdique	1,482	929	1 344	843
22. Nickel:				
Briquettes	490	..	445	..
Electrolytic - Electrolytique	1,058	..	960	..
Ingots - Lingots	37	..	34	..
"F" shot and ingots - "F" grenaille et lingots	64	..	58	..
Other, including oxide sinter, "NCC" pig, "NH" pig, "XX" shot, etc. - Autres, y compris travertin d'oxyde, "NCC saumon, "NH" saumon, "XX" grenaille, etc.	4,424	..	4 014	..
Total nickel	6,073	..	5 511	..
23. Other, including calcium metal, manganese ore, tungsten ore, etc. - Autres, y compris calcium-métal, minerai de manganèse, minerai de tungstène, etc.	12,818	1,356	11 629	1 230

See footnote(s) at end of Table 2. - Voir note(s) à la fin du tableau 2.

TABLE 2. Stocks of Ferro-alloys and Addition Agents, 1977

TABLEAU 2. Stocks de ferro-alliages et de produits d'addition, 1977

	On hand December 31, 1977 - En main au 31 décembre 1977			
	Gross weight	Metal content	Gross weight	Metal content
	Poids brut	Métal contenu	Poids brut	Métal contenu
	tons of 2,000 pounds		metric - tonnes - métriques	
	tonnes de 2,000 livres			
Ferro-alloys - Ferro-alliages:				
1. Ferrobore - Ferrobore	19	2	17	2
2. Ferrochrome (including Chrom-X) - Ferrochrome (y compris Chrom-X):				
High carbon - Forte teneur en carbone	2,273	1,224	2 062	1 110
Low carbon (maximum 2% carbon) - Faible teneur en carbone (maximum 2 % de carbone)	461	279	418	253
3. Ferromanganese - Ferromanganèse:				
High carbon (over 3% carbon) - Forte teneur en carbone (plus de 3 % de carbone)	5,622	..	5 100	..
Medium carbon - Teneur moyenne en carbone	868	..	787	..
Low carbon (maximum 0.75% carbon) - Faible teneur en carbone (maximum 0.75 % de carbone)	131	..	119	..
4. Ferromolybdenum - Ferromolybdène	90	45	82	41
5. Ferrophosphorus - Ferrophosphore	774	..	702	..
6. Ferroselenium - Ferrosélénium	(3)	..	(3)	..
7. Ferrosilicon(2) - Ferrosilicium(2):				
Low silicon grade (under 45% silicon) - Faible teneur en silicium (moins de 45 % de silicium)	676	..	613	..
Medium silicon grade - Teneur moyenne en silicium	2,732	..	2 478	..
High silicon grade (over 55% silicon) - Forte teneur en silicium (plus de 55 % de silicium)	1,732	..	1 571	..
Sil-X	(3)	..	(3)	..

See footnote(s) at end of table. - Voir note(s) à la fin du tableau.

TABLE 2. Stocks of Ferro-alloys and Addition Agents, 1977 - Concluded
 TABLEAU 2. Stocks de ferro-alliages et de produits d'addition, 1977 - fin

	On hand December 31, 1977 - En main au 31 décembre 1977			
	Gross weight	Metal content	Gross weight	Metal content
	Poids brut	Métal contenu	Poids brut	Métal contenu
	tons of 2,000 pounds		metric - tonnes - métriques	
	tonnes de 2,000 livres			
Ferro-alloys - Concluded - Ferro-alliages - fin:				
8. Ferrotitanium - Ferrotitane	49	32	44	29
9. Ferrotungsten - Ferrotungstène	40	32	36	29
10. Ferrovanadium	191	151	173	137
11. Ferrozirconium	52	(3)	47	(3)
12. Silico manganese - Silico manganèse	1,307	..	1 186	..
13. Spiegeleisen	(3)	..	(3)	..
14. Other, including ferrocolumbium, ferrotantalum-columbium, etc. - Autres, y compris ferrocolombium, ferrotantale- columbium, etc.	1,900	139	1 724	126
Addition agents - Produits d'addition:				
15. Aluminum metal - Aluminium-métal	584	..	530	..
16. Calcium-manganese silicon - Silicium au calcium-manganèse ...	13	..	12	..
17. Calcium silicon - Silicium au calcium	152	..	138	..
18. Chrome ore - Minerai de chrome	42	13	38	12
19. Cobalt metal - Cobalt-métal	16	..	15	..
20. Manganese metal - Manganèse-métal	1,049	..	952	..
21. Molybdic oxide - Oxyde molybdique	273	152	248	138
22. Nickel:				
Briquettes	101	..	92	..
Electrolytic - Electrolytique	170	..	154	..
Ingots - Lingots	3	..	3	..
"F" shot and ingots - "F" grenaille et lingots	6	..	5	..
Others, including oxide sinter, "NCC" pig, "NH" pig, "XX" shot, etc. - Autres, y compris travertin d'oxyde, "NCC" saumon, "NH" saumon, "XX" grenaille, etc.	1,019	..	924	..
Total nickel	1,299	..	1 178	..
23. Other, including calcium metal, manganese ore, tungsten ore, etc. - Autres, y compris calcium-métal, minerai de manganèse, minerai de tungstène, etc.	5,637	1,954	5 114	1 773

- (1) Ferrous and non-ferrous alloying addition agents used in the production of steel, cast iron, cupro nickel, coinage, magnet alloy, etc. - Produits d'addition d'alliages ferreux et non ferreux utilisés dans la production d'acier, de fonte, de cupronickel, de monnayage, d'alliages magnétiques, etc.
- (2) Does not include ferrosilicon used in production of magnesium. - N'inclus pas le ferrosilicium utilisé dans la production du magnésium.
- (3) Included with "Other, including ferrocolumbium, ferrotantalum-columbium, etc." - Inclus avec "Autres, y compris ferrocolombium, ferrotantale-columbium, etc."
- .. Figures not available. - Nombres indisponibles.

List of Reporting Consumers
Liste des consommateurs répondants

Name — Nom		Plant location — Localisation de l'usine
A-1 Steel & Iron Foundry Ltd.	(2, 3, 7, 14, 15, 17, 21, 22)	Vancouver, B.C. - C.-B.
Abex Industries of Canada Ltd.	(2, 3, 7, 12, 15, 16, 22)	Joliette, Qué.
	(2, 3, 7, 12, 15, 17, 21, 22)	Selkirk, Man.
Aimco Automotive Industries	(2, 3, 7)	St. Catharines, Ont.
Alcan Smelters & Chemicals Ltd.	(7, 20) (7, 22, 23)	Montréal, Qué. Kitimat, B.C. - C.-B.
Algoma Steel Corp'n Limited, The	(1, 2, 3, 5, 7, 8, 10, 12, 14, 15, 21, 22, 23)	Sault Ste. Marie, Ont.
Alloy Foundry Co. Ltd.	(7)	Merrickville, Ont.
Anaconda Canada Limited	(15, 20, 22, 23)	Toronto, Ont.
Ancast Industries Limited	(3, 7, 14)	Winnipeg, Man.
Associated Foundry Ltd.	(3, 7)	Surrey, B.C. - C.-B.
Atlas Steels (A Division of Rio Algom Ltd.)	(1, 2, 3, 4, 7, 14, 15, 17, 21, 22)	Tracy, Qué.
	(1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23)	Welland, Ont.
Babcock & Wilcox Canada Ltd.	(2, 3, 4, 7, 15, 22)	Cambridge (Galt), Ont.
Bell City Foundry (Brantford) Ltd.	(7)	Brantford, Ont.
Bell Foundry Co. Ltd.	(3, 7, 14, 22)	St. James, Man.
Benn Iron Foundry Ltd.	(3, 7, 22)	Wallaceburg, Ont.
Bibby Foundry, Limited	(3, 7)	Cambridge (Galt), Ont.
Black Clawson-Kennedy Ltd.	(2, 3, 4, 7, 11, 14, 15, 17, 22, 23)	Owen Sound, Ont.
Brown Foundry Ltd.	(7)	Morrisburg, Ont.
Burlington Steel (A Division of Slater Steel Industries Ltd.)	(2, 3, 4, 5, 7, 10, 12, 14)	Hamilton, Ont.
CAE Machinery Ltd.	(2, 3, 4, 7, 12, 15, 17, 21, 22)	Vancouver, B.C. - C.-B.
Canada Alloy Castings Ltd.	(2, 3, 4, 7, 17, 18, 19, 22)	Kitchener, Ont.
Canada Valve Ltd.	(2, 14)	Kitchener, Ont.
Canadian Blower & Canada Pumps Ltd.	(7, 15, 18, 22)	Kitchener, Ont.
Canadian Steel Wheel Ltd.	(3, 7, 12, 15, 21)	Montréal, Qué.

List of Reporting Consumers - Continued
 Liste des consommateurs répondants - suite

Name — Nom	Plant location — Localisation de l'usine
Canron Limited (Pipe Division)	(7, 14, 23) Trois-Rivières, Qué.
	(2, 3, 4, 7, 14, Hamilton, Ont. 22)
	(3, 4, 5, 7, 23) St. Thomas, Ont.
	(3, 12, 14, 18, 23) Toronto, Ont.
Canron Limited (Wabi Iron Works)	(2, 3, 4, 7, 14, New Liskeard, Ont. 22)
Chromasco Limited	(7, 15) Haley, Ont.
Crawford Machine & Foundry Ltd.	(2, 7) Woodstock, Ont.
Crowe Foundry Ltd.	(2, 3, 4, 5, 7, 22) Cambridge (Hespeler), Ont.
Colt Industries (Canada) Ltd. (Crucible Steel Division)	(1, 2, 3, 4, 7, 8, Sorel, Qué. 10, 12, 14, 15, 17, 20, 21, 22, 23)
Dart Foundries Ltd.	(2, 3, 4, 7, 14) Stevensville, Ont.
Date Industries Ltd.	(7) Ayr, Ont.
Dayton-Walther Company Limited	(2, 3, 4, 7, 12, Guelph, Ont. 15)
Deloro Stellite Limited	(2, 7, 12, 19, 23) Belleville, Ont.
Domfer Metal Powders Ltd.	(4, 22) Lachine, Qué.
Dominion Bridge Co. Limited	(2, 3, 4, 7, 22) Edmonton, Alta. - Alb.
Dominion Engineering Works Ltd.	(2, 3, 7, 12, 14, Lachine, Qué. 21, 22)
Dominion Foundries & Steel, Limited	(2, 3, 5, 7, 8, 10, Hamilton, Ont. 11, 14, 21, 22)
Dorr-Oliver-Long Ltd.	(2, 3, 4, 5, 7, 22, Orillia, Ont. 23)
Esco Ltd.	(2, 3, 4, 7, 11, Port Coquitlam, B.C. - C.-B. 12, 15, 16, 21, 22)
Fahramet Ltd.	(2, 3, 4, 7, 12, Orillia, Ont. 14, 15, 16, 17, 21, 22)
Findlay Foundry Ltd.	(7, 22) Carleton Place, Ont.
Fittings Limited	(1, 3, 7) Oshawa, Ont.
Fonderie de Thetford (1969) Inc., La	(2, 3, 4, 7, 10) Thetford Mines, Qué.
Fonderie Magog Ltée.	(2, 4, 7, 11, 14, Magog, Qué. 17, 21)
Fonderie Ste-Croix Ltée, La	(3, 7, 14) Ste-Croix (Lotbinière), Qué.
Foothills Steel Foundry & Iron Works Ltd. (Irving Industries)	(2, 3, 4, 7, 11, Calgary, Alta. - Alb. 12, 15, 16, 22)

List of Reporting Consumers - Continued

Liste des consommateurs répondants - suite

Name	Plant Location
-	
Nom	Localisation de l'usine
Ford Motor Co. of Canada Ltd.	(2, 3, 7, 14) Windsor, Ont.
Foseco Canada Ltd.	(7) Guelph, Ont.
Galt Malleable Iron Ltd.	(3, 7, 14) Cambridge (Galt), Ont.
General Motors of Canada Ltd.	(2, 3, 7, 14, 23) St. Catharines, Ont.
Griffin Steel Foundries Ltd.	(3, 7, 15) St-Hyacinthe, Qué.
	(2, 3, 7, 15) Transcona, Man.
Grinnell Co. of Canada Limited	(7) Toronto, Ont.
Hawker Siddeley Canada Ltd. (Canadian Steel Foundry Division)	(2, 3, 7, 8, 10, 11, 12, 15, 16, 18, 22) Montréal, Qué.
Hepburn, John T., Limited	(2, 3, 4, 7, 22) Toronto, Ont.
Holmes Foundry Limited	(2, 3, 7) Sarnia, Ont.
International Malleable Iron Co. Ltd.	(3, 7, 14) Guelph, Ont.
Kelsey Hayes Canada Limited	(3, 4, 7, 18, 23) Woodstock, Ont.
Légaré Foundry 1961 Ltd.	(2, 3, 7) Sherbrooke, Qué.
Letson & Burpee Ltd.	(2, 3, 4, 7, 15, 22) Surrey, B.C. - C.-B.
Lynn MacLeod Metallurgy Ltd.	(2, 3, 4, 7, 12, 15, 16, 17, 18, 20, 21, 22) Thetford Mines, Qué.
M.B.E. Limited	(2, 7, 22) Winnipeg, Man.
Manitoba Rolling Mills (Division of Dominion Bridge Co. Ltd.)	(2, 3, 4, 5, 7, 10, 12, 14, 15, 22, 23) Selkirk, Man.
Maritime Steel & Foundries Ltd.	(3, 7, 12, 16, 22) New Glasgow, N.S. - N.-É.
Massey-Ferguson Industries Ltd.	(2, 3, 7, 12, 13, 14) Brantford, Ont.
Masterloy Products Ltd.	(7, 9, 10, 15, 21) Ottawa, Ont.
Metals & Alloys Co. Ltd.	(20, 22) Toronto, Ont.
Midland Ross of Canada Ltd. (Unitcast Division)	(3, 12, 15, 16, 21, 22) Sherbrooke, Qué.
Mueller Limited	(3, 7) St-Jérôme, Qué.
Noranda Metal Industries Ltd.	(20, 22) Montréal, Qué.
Otaco Limited (Foundry Division)	(7, 14, 23) Orillia, Ont.
Quality Steel Foundries Ltd.	(3, 7, 22) Edmonton, Alta. - Alb.
Québec Iron Foundries Ltd.	(2, 3, 7, 21, 22) Mont-Joli, Qué.
	(2, 3, 7) Noranda, Qué.

List of Reporting Consumers - Concluded

Liste des consommateurs répondants - fin

Name — Nom	Plant Location — Localisation de l'usine
Reed Ltd. (Pigments Division)	(21) Toronto, Ont.
Reliance Foundry Co. Ltd.	(2, 3, 7, 15) Surrey, B.C. - C.-B.
Rockwell Mfg. Co. of Canada Ltd.	(7) Guelph, Ont.
Sidbec-Dosco Ltd.	(2, 3, 4, 7, 10, 12, 14, 15, 17, 22) Montréal, Qué.
Sorel Steel Foundries Ltd.	(2, 3, 4, 7, 12, 17, 21, 22, 23) Sorel, Qué.
Steel Co. of Canada Ltd., The	(1, 2, 3, 5, 7, 8, 10, 12, 14, 15, 17, 21, 23) Hamilton, Ont.
Sydney Steel Corporation	(2, 3, 4, 5, 7, 10, 12, 15, 22, 23) Sydney, N.S. - N.-É.
Terminal City Iron Works Ltd.	(7) Vancouver, B.C. - C.-B.
Usarco Ltd.	(20) Hamilton, Ont.
Wail Colmonoy (Canada) Ltd.	(7, 15, 22) Montréal-Est, Qué.
Walmet Industries Ltd.	(2, 3, 4, 7, 9, 12, 14, 15, 21, 22, 23) Welland, Ont.
Western Canada Steel Ltd. (Arc Furnace Div.)	(2, 7, 10, 12, 14, 15) Vancouver, B.C. - C.-B.
Western Foundry Co., Ltd.	(3, 5, 7) Wingham, Ont.

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