

MATERIAL SAFETY DATA SHEET



The David J. Joseph Company
85 South Main St, Suite G
Hudson, Ohio 44133

Emergency Phone Number:
Chemtrec Assistance
1-800-424-9300
Additional Information:
Pickands Mather 1-800-553-0111

Section 1 - Products:

Product Name: PIG IRON - BESSEMER
Formulas: 2.0 - 2.25 Si Grade - Si, S, P, Mn, C, Fe
2.50 - 2.75 Si Grade - Si, S, P, Mn, C, Fe
2.25 - 2.50 Si Grade - Si, S, P, Mn, C, Fe
2.75 - 3.0 Si Grade - Si, S, P, Mn, C, Fe

Product Name: PIG IRON - BASIC GRADE
Formula: Si, S, P, Mn, C, Fe

Product Name: PIG IRON - SPECIAL LOW PHOSPHORUS GRADE
Formula: Si, S, P, Mn, C, Fe

Section 2 - Physical Data:

Form: Standard Pig
Solubility: Insoluble in water
Reactivity: N/A

Section 3 - Typical Analysis (Wt. %):

Product Name: Pig Iron - Bessemer
Formula:

2.0 - 2.25 Si Grade	CAS No.	2.50 - 2.75 Si Grade	CAS No.
Si 2.20%	7631-86-9	Si 2.65%	7631-86-9
S 0.015%	7704-34-9	S .015%	7704-34-9
P 0.080%	7723-14-0	P .080%	
Mn 0.65%	7439-96-5	Mn .65%	7439-96-5
C 4.25%	7440-44-0	C 4.25%	7440-44-0
Fe Balance	7439-89-6	Fe Balance	7439-89-6

2.25 - 2.50 Si Grade	CAS No.	2.75 - 3.0 Si Grade	CAS No.
Si 2.4%	7631-86-9	Si 2.9%	7631-86-9
S .015%	7704-34-9	S .010%	7704-34-9
P .080%	7723-14-0	P .1%	
Mn .65%	7439-96-5	Mn .70%	7439-96-5
C 4.25%	7440-44-0	C 4.25%	7440-44-0
Fe Balance	7439-89-6	Fe Balance	7439-89-6

Product Name: Pig Iron - Basic Grade
Formula:

Si 1.0%
S 0.02%
P .09%
Mn .50%
C 4.0%
Fe Balance

Product Name: Pig Iron - Special Low Phosphorus
Formula:

Si	0.15%
S	0.015%
P	0.02%
Mn	0.02%
C	4.25%
Fe	Balance

Section 4 - Reactivity Data:

Stability - Stable

Incompatibility - None

Hazardous Decomposition Products - None as normally used in melting operations

Hazardous Polymerization - Will not occur

Section 5 - Health Hazard Data:

No toxic effects would be expected from its normal inert solid form.
Prolonged, repeated exposure to fumes or dusts generated during heating may cause adverse health effects associated with the following constituents:

Iron	OSHA Std. 10 mg/m ³ (Iron Oxide)
Carbon	OSHA Std. e.5 mg/m ³
Silicon	15 mg/m ³ OSHA

No TLV's listed for pig iron. TLV's may be applicable to constituent elements.

Skin Contact: None
Eye Contact: None
Ingestion: None

Section 6 - Emergency and First Aid Procedures:

Inhalation: In case of overexposure, immediately move person from contaminated area to fresh air at once. Give artificial respiration if breathing has stopped, or oxygen if necessary. Get medical attention if necessary.

Skin: N/A
Eyes: N/A
Ingestion: N/A

Section 7 - Special Handling Information:

Ventilation: N/A

Protective Clothing: Hard Hat, gloves and approved safety shoes should be worn when handling to prevent physical injury.

Eye Protection: Safety glasses should be worn at all times during handling.

Section 8 - Spill, Leak and Disposal Procedures:

N/A