



St. Marys Cement

Great Lakes Region
Detroit Plant
9333 Dearborn Avenue

Detroit, MI
48209
(313) 842-4600
(313) 849-4512

Type I/II May 01, 2017 to May 31, 2017

Chemical Data

Loss on Ignition	1.7 %
SiO ₂	19.6 %
Fe ₂ O ₃	3.17 %
Al ₂ O ₃	4.9 %
CaO	61.9 %
Free CaO	0.7 %
MgO	2.6 %
SO ₃	3.73 %
K ₂ O	1.15 %
Na ₂ O	0.24 %
TiO ₂	0.2 %
Insoluble Residue	0.26 %
Total Alkali as Na ₂ O	1.00 %
CO ₂	0.5 %
Limestone	1.3 %
CaCO ₃ in Limestone	97.00 %

Physical Data

Fineness	Blaine SA	404 m ² /kg
	Retained 325	5.1 %
Normal Consistency		27.0 %
Autoclave Expansion		0.08 %
Air Content		9 %
Sulphate Expansion		0.008 %
Vicat	Initial	100 Min.
	Final	204 Min.

Calculated Compounds

C ₂ S	15 %
C ₃ S	55 %
C ₃ A	8 %
C ₄ AF	10 %

Compressive Strengths

Age	MPa	PSI
1-Day	19.3	2805
3-Day	29.2	4242
7-Day	34.2	4966
28-Day	40.9	5928

Testing methods and equipment comply with the requirements of ASTM C150 and A3000 Compendium Specifications A3003, A3004 and A3005. This Mill Test certifies this product to meet all the standard chemical and physical requirements of ASTM C150 for Type I and Type II Portland Cement and of CSA A3001 for Type GU cement.

June 23, 2017
St. Marys Cement

Linda Harris
Quality Control Manager