

The Nichols Chemical Co., Ltd.

Manufacturing Chemists

HEAD OFFICE, MONTREAL

WORKS:

Capelton, Que. Salthide, Ont.
Baruet, B. C.

WAREHOUSES:

Montreal
Toronto

THE DOUGALL VARNISH COMPANY, Ltd.

Successors to McCaskill, Dougall & Co.



RAILWAY VARNISH MANUFACTURERS MONTREAL

SAND?

ARCHITECTS AND ENGINEERS, ATTENTION!

The following tests made by the Faculty of Applied Science and Engineering, University of Toronto, shows the superior quality of "Water-Washed" sand over the average pit sand used for building purposes and reinforced concrete steel construction, where sand is expected to come up to the standard of other first class materials used on the work. If fire occurs, disintegration cannot possibly take place in walls or concrete with a mortar containing 55 per cent. of silica (standard quartz), such as water-washed sand is.

Chemical Analysis of Water-Washed Sand

Silica	55.0%
Alumina and Iron	12.3
Line	17.0
Magnesia	2.4
Molsture and Carbon Dioxide	13.3

Fusion Test of Water-Washed Sand

Sample ground to pass 80 mesh and compressed in form of Segar cone

Temp. C.	Temp. F.	Behaviour.
1250°	2280°	Cone sintered
1350°	2460°	Cone softened
		Unground material heated in crucible
1350°C.	2500°F.	Sintered slightly

Tel. Main 4507

SAND & DREDGING LIMITED

Spadina Avenue Dock, Toronto