

#### Rosendale Camel-Hair Belting.

The Rosendale Belting Company has lately erected extensive works on Euclid avenue, Newark, N. J., for the manufacture of hair driving belts, by a patented process first perfected in England, where it rapidly came into prominence by reason of its excellent record in practice. The fabric used in the manufacture of this belting is claimed to make belting that is stronger than that made from any other material, and, after it has been subjected to suitable treatment, to be described hereafter, the belting becomes exceedingly durable under strain, highly efficient in operation, and impervious to water.

The object of the inventors of this new fabric has been to secure a belting that should yield greater friction between belt and pulley, avoid the necessity of piecing in belts of considerable width, secure high and uniform tensile strength, and be impervious to moisture and indifferent to changes of temperature.

The general method of manufacture, as conducted in the Newark factory of the company, is substantially as follows: Some fourteen looms are engaged in turning out the Rosendale fabric, which is woven in widths of from 2 to 40 inches. The weft and binder are composed of cotton, and the woof of camel's-hair yarn. When the weaving is completed, with round and complete edges the belting is thoroughly impregnated with a special preparation of a water-proofing compound; and after this it is given another treatment, by which it is saturated with oxide of iron. It is then dried, and subsequently

such as coal, minerals, etc., the surface of the fabric is submitted to a treatment by which it is artificially hardened. In such cases, strands of prepared rope are inserted at intervals in the woof, by which the surface is raised into a series of ridges, which prevents the slipping or displacement of the materials. The company presents the following tabular statement of the relative strength of its belting, as compared with leather:

Width of Belt.	Camel's Hair.	Leather.
2 inches.....	2,490 pounds.....	968 pounds.
3 ".....	3,740 ".....	1,452 "
6 ".....	7,480 ".....	2,904 "
10 ".....	12,460 ".....	4,840 "