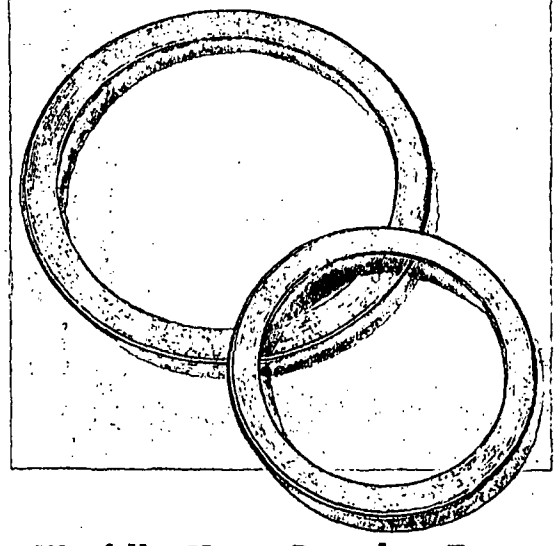
SPIRALWOUND



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More TECHNICAL BRIEFS

Begins on page

What we require is a physical property of the oil which will define its pumpability independently of the installation or measuring equipment, but a property we can apply, like viscosity, to any installation in order to derive the overall handling qualities. It is helpful to keep in mind the basic difference between cooling (a) a wax-free and (b) a waxy oil. The former increases in viscosity in a known and simple manner as the temperature falls; but it remains a true liquid (i.e. it will flow under a pressure difference, however small). The waxy oil behaves in the same way until some temperature is reached below which the "viscosity" increase is not according to a simple law; the viscosity has become anomalous, and at some lower temperature the oil may cease to behave as a true liquid because it is able to resist the application of a pressure difference. This state is indicated of course by the ordinary "pour point"; but for various reasons discussed, pour point cannot be regarded as any more than a probable indication of the pumpability of the oil. It is therefore necessary to choose some more suitable property of the oil, to define it, to lay down a method for measuring it which will be independent of the measuring apparatus, and to examine its correlation with large scale behavior. This the authors attempt to do. *API Paper, no number.*

More POWER NEWS

Begins on page 179

Circular concrete linings, 3-ft thick, will reduce the final diameter to 45 ft. These linings will require nearly a million cubic yards of concrete—more than enough to build a sidewalk from Boston to San Francisco.

Tunnel construction falls under two contracts: (1) B Perini & Sons, Inc, Walsh Construction Co and Canadian-American Contractors (2) Rayner-Atlas, Ltd. Blaw-Knox Co of Pittsburgh will supply the steel forms used for concrete setting.

On the average, one-fifth of the total flow of Niagara will pass through these tunnels. This amounts to 26-billion gallons of water daily—enough to meet the home needs of from ½ to ⅔-billion people.

A U. S.-Canadian treaty, ratified Oct 10, 1950, makes water available for the power station. This treaty insures that at least 100,000-cfs of water must pass over the cataracts during the daytime hours of the mild-weather months. At all other times enough water must be

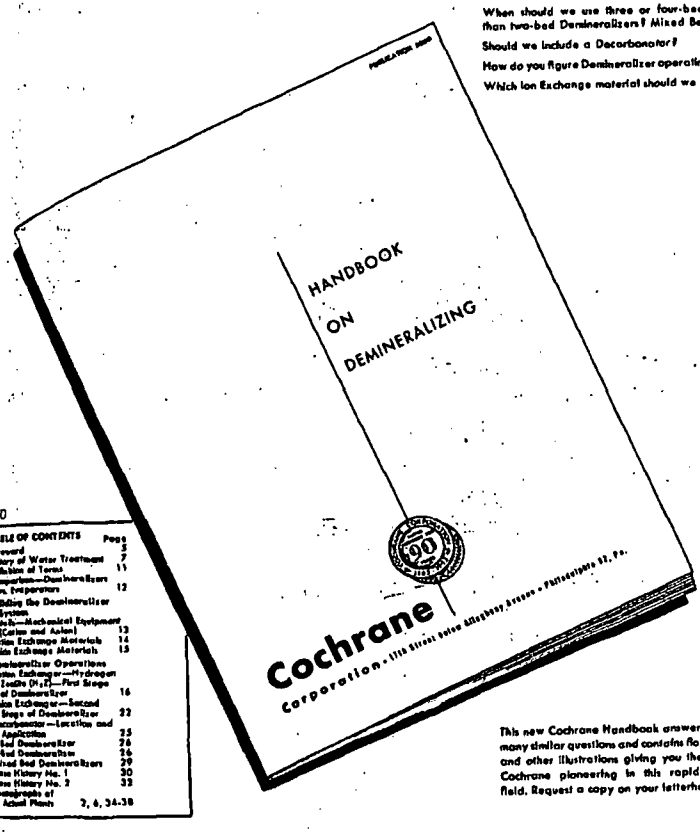
Why is Demineralization being selected instead of Evaporators?

When should we use three or four-bed rather than two-bed Demineralizers? Mixed Bed?

Should we include a Decarbonator?

How do you figure Demineralizer operating costs?

Which Ion Exchange material should we specify?



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This new Cochrane Handbook answers these and many similar questions and contains flow diagrams and other illustrations giving you the benefit of Cochrane pioneering in this rapidly growing field. Request a copy on your letterhead.

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