



Designation: **D 4692 – 87 (Reapproved 1996) 4692 – 01**

Standard Practice for Calculation and Adjustment of Sulfate Scaling Salts (CaSO_4 , SrSO_4 , and BaSO_4) for Reverse Osmosis and Nanofiltration¹

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1. Scope

1.1 This practice covers the calculation and adjustment of calcium, strontium, and barium sulfates for the concentrate stream of a reverse osmosis or nanofiltration system. The calculations are used to determine the need for scale control in the operation and design of reverse osmosis and nanofiltration installations. This practice is applicable for all types of reverse osmosis devices (tubular, spiral wound, and hollow fiber) and nanofiltration devices.

1.2 This practice is applicable to both brackish waters and seawaters.

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This practice is under the jurisdiction of ASTM Committee D-19 on Water and is the direct responsibility of Subcommittee D 19.08 on Membranes and Ion Exchange Materials.

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