

GE Osmonic Desal Membranes

Low Fouling (Nanofiltration)

Duraslick™ is a new series of thin-film membrane elements engineered for use with fouling-prone brackish water applications. Duraslick is designed to utilize an innovative three-layer membrane, of which a proprietary middle layer creates extreme smoothness. Independent studies have demonstrated that Duraslick elements are superior to standard polyamide spiral wound membrane elements for desalination of difficult feed water sources. Duraslick NF elements retrofit existing NF systems to obtain lower fouling, reduced overall energy usage, increased membrane service life and an extension of operating time between required cleanings, which in turn reduces expenditures on required chemicals. Duraslick NF Elements provide a high rejection of divalent and multivalent anions while monovalent ion rejection is dependent upon feed concentration and composition. DURASLICK NF 8040 Low Fouling Nanofiltration elements feature a FRP outerwrap and 31 MIL feed spacers. This element is designed with flush end connections.

Model	Flow	Active Area	Avg. Rej.	Part Number
DURASLICK NF 2540	690 GPD (2.6 m ³ /d)	24 ft ² (2.2 m ²)	98.60%	1234385
DURASLICK NF 4040	2,200 GPD (8.3 m ³ /d)	78 ft ² (7.2 m ²)	98.60%	1234307
DURASLICK NF 8040	10,200 GPD (38.6 m ³ /d)	350 ft ² (32.5 m ²)	98.60%	1234182

Specifications are based on a 2000 mg/L MgSO₄ solution at 100 psig operating pressure (690 kPa), 77°F (25°C), 15% recovery, pH 7.5 after 24 hours. Individual flux may vary +25%/ -25%.