



Scraper Blades for Ametek Drum

Scraper Blades For Precoat Drum Filters

Compositech manufactures scraper blades for optimal precoat drum filter operations. Precoat drum filters are designed to polish a solution by removing the fine particles suspended in the liquid. To provide this polish, the drum deck is coated with a filter medium that retains the fines and produces a clear filtrate. The precoat medium is made of diatomaceous earth, perlite, cellulose, or specially ground wood. The drum deck is subject to a constant vacuum through the entire drum rotation. While the

drum is submerged in the liquid vat at the base of its rotation, the vacuum pulls the liquid through the filter medium and deposits particles in a thin layer on the surface of the precoat bed. Clear liquid comes from the drum and the particles ride on the drum, are dried by the air from the vacuum, and are shaved off by scraper blades. A small amount of filter aid is also shaved off each rotation to offer a clean surface for the next trip through the vat. For ideal operation, the scraper blade is designed to remove as little as 0.0004 inch of filter aid per revolution. At that rate, the drum rotates 2,500 times to remove 1 inch of precoat. At less than one revolution per minute, 6 inches of precoat can last 250 hours. This shaving of the filter aid is controlled by variable frequency drives and fine screws which carefully control the blade travel.

Compositech's scraper blades are manufactured of the finest material and are available in a variety of lengths for the most efficient drum filter operations. Our blades are made from Stellite, a very hard cobalt based material known to maintain a sharp edge. We laser cut our scraper blades from a rolled sheet rather than using a cast or hot rolled blank. After being cut to precise shape and size, our scraper blades are sharpened to a 23-degree angle. Since the filter medium is abrasive, the scraper blade edge must be kept sharp otherwise the cut is not smooth and vibrations to the discharge mechanism may be experienced. The fine edge on Compositech blades increases the blade life and reduces chatter.

The industry standard scraper blade length is 6 inches. At this length, multiple blades are needed to shave the full surface of most precoat drum filters. This is problematic because each scraper blade joint is an opportunity for wear problems and alignment issues. In an effort to reduce the number of blades required for a drum filter, Compositech manufactures standard 6 inch blades as well as longer lengths including 12 inch, 18 inch, 24 inch, and 48 inch scraper blades. Longer blades and fewer joints result in extended blade life for the filter. Additionally, our longer scraper blades are more easily installed and aligned, translating to a reduction in filter downtime.

Compositech's goal is to provide high performing scraper blades for our customers. Give our scraper blades a try and see a reduction in your overall operating costs! We offer 72-hour shipping on any in-stock scraper blade with overnight shipping available. Orders placed before noon typically ship the same day.

Compositech supplies spare parts for Eimco®, Dorr-Oliver®, Komline-Sanderson, Ametek, Westech and most brands of filtration equipment. All of our replacement parts are manufactured and warranted by Compositech and they meet or exceed the material of OEM components. Compositech is not an authorized replacement parts or service supplier for Eimco® or Dorr Oliver® brands of process equipment or parts. Compositech is not associated with FLSmidth A/S or their affiliated entities.

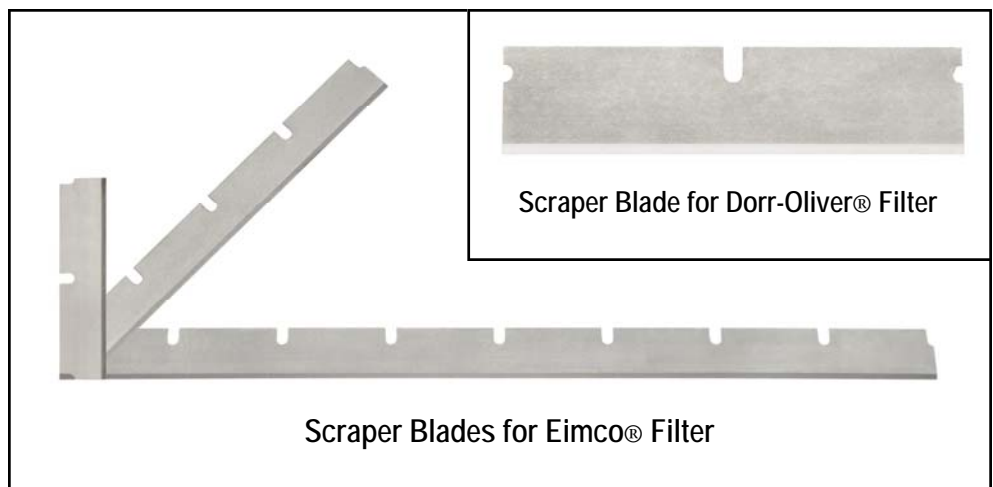


Physical Address:
4531 Main
Pearland, TX 77581

Mailing Address:
P.O. Box 2673
Pearland, TX 77588

Phone: 281-648-3557
Fax: 281-648-4515

website:
www.compositech-filters.com



Scraper Blade for Dorr-Oliver® Filter

Scraper Blades for Eimco® Filter