

DURAFILTER FCC-50

FILTER CARTRIDGE

The DuraFilter FCC-50 is a disposable filter cartridge used as a main filter in mobile and stationary welding fume extraction systems. The filter cartridge is built of cellulose fibers. It is shaped into a square profile and provided with cardboard corners. The special construction (pleats) and the embossing of the filter medium guarantee an equal airflow over the filter. As a result, the pollution is equally divided over the entire filter surface.

The welding fume particles are collected on the inside of the filter cartridge. When it is saturated, it needs to be replaced.



APPLICATIONS

The DuraFilter FCC-50 is intended to be used for the following applications:

- MIG-MAG/GMAW welding
- TIG welding
- FCAW welding
- stick/MMAW welding



Do **not** use the DuraFilter FCC-50 for the following applications or in the following circumstances:

- arc-air gouging
- aluminium laser cutting
- oil mist
- heavy oil mist in welding fume
- extraction of aggressive fumes and gases (e.g. from acids, from alkaline, from soldering paste containing lithium)
- extraction of hot gases (more than 45°C/113°F continuously)
- grinding aluminum and magnesium
- flame spraying
- extraction of cement, saw dust, wood dust etc.
- sucking cigarettes, cigars, oiled tissues and other burning particles, objects and acids
- explosive environments or explosive substances/gases



SPECIFICATIONS

Physical dimensions and properties

Material	phenol impregnated cellulose + polyurethane + cardboard
Dimensions L x W	550 x 550 mm (21.7 x 21.7 in.)
Height	590 mm (23.2 in.)
Colour	yellow/brown
Weight (net)	9,5 kg (21 lbs)
Shape	pleated square
Number of pleats	508
Pleat spacing	hot melt
Filter surface area	50 m ² (538 ft ²)
Surface weight	± 135 g/m ²

Performance

Treatment	SurfacePlus precoat (synthetic amorphous silica)
Efficiency	>99%

Filter class	M according to DIN EN 60335-2-69
Filter class/at flow	200 m ³ /m ² .h (10.9 ft ³ /ft ² .min.)
Particle size	0,3-5 µm
Filtration speed	0,056 m/s (11 ft/min.)
Quartz dust concentration	200 +/- 20 mg/m ³ (0.087 grains/ft ³)
Fire class	F1 according to DIN 53438
Air permeability test at 200 Pa (0.8 in. WG)	>140 l/m ² .s

Ambient conditions

Operating temperature:	• nin. • nom. • max.
Max. relative humidity	75%
Outdoor use allowed	no
Storage conditions	• 5-45°C (41-113°F) • relative humidity max. 75%

Available options

FAC-50	activated carbon filter
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Where used

MFD	mobile welding fume extractor
SFD	stationary welding fume filter

Scope of supply

Pre-coated filter cartridge - Pair of gloves - Dust mask

Order information

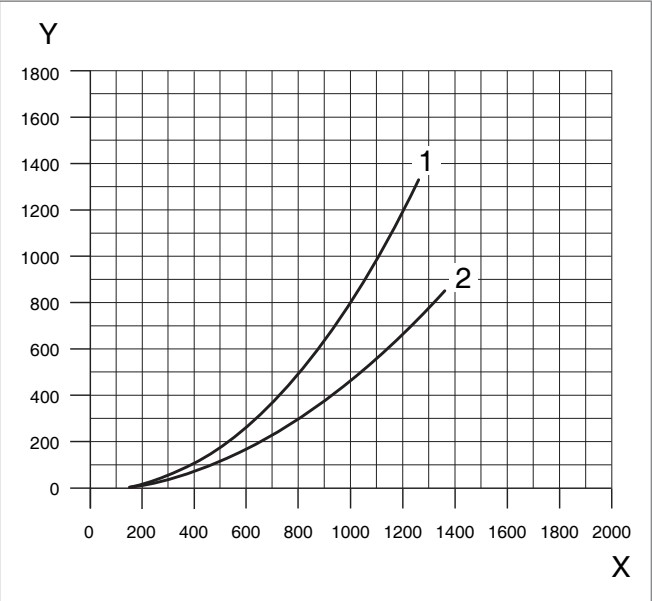
Article number	9850060050
Number/package	1

Shipping data

Gross weight	11 kg (24 lbs)
Packing dimensions	580 x 580 x 620 mm (22.8 x 22.8 x 24.2 in.)
Max. number/pallet	12
• pallet size (L x W x H)	• 1150 x 1200 x 2000 mm (45.3 x 47.2 x 78.7 in.)
• weight	• 147 kg (324 lbs.)

Harmonized Tariff Code	8421.39.2090
Country of origin	Latvia

PRESSURE DROP



X = Airflow (m³/h)
Y = Static pressure (Pa)
1 = Clogged filter
2 = Clean filter

Product type	DuraFilter FCC-50
Article no.	9850060050
Product category	Filters
Version	100320/H

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