Inspection Services

DORSTENER DRAHTWERKE

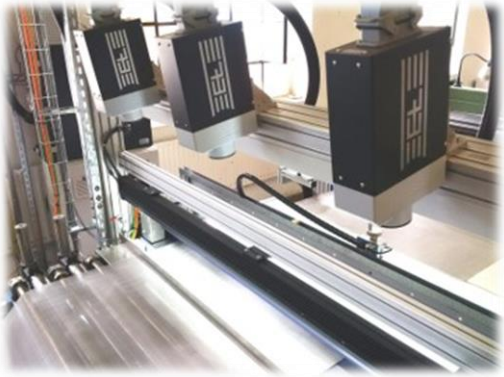
Many industries often rely on certain wire mesh specifications for high performance use. Wire mesh is used for critical separation and filtration in oil and gas, food and beverage, pharmaceuticals and many more industries, were test have to meet specific testing and documentation requirements.

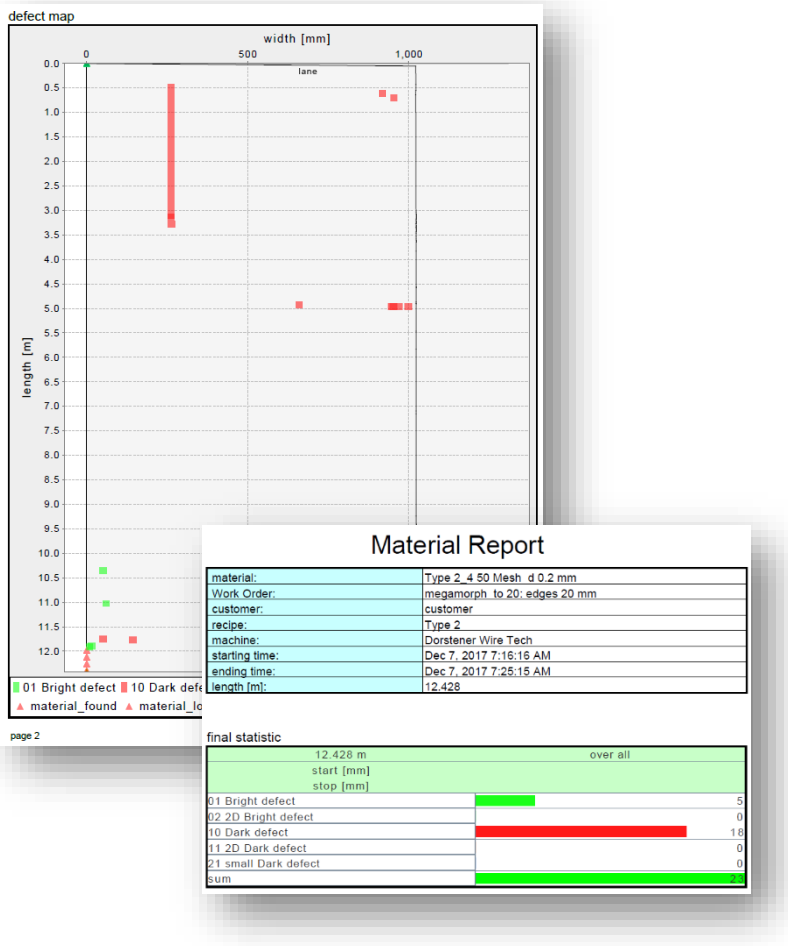
QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

100% Woven Mesh Roll Inspection

One of our most recent additions to our quality system is an automated visual inspection for wire cloth rolls and pieces. The system gives us the ability to detect subtle, unpredictable defects that are inherent in the weaving process.

€ 70,- for detailed test report + € 1,50 / lin.m inspection cost



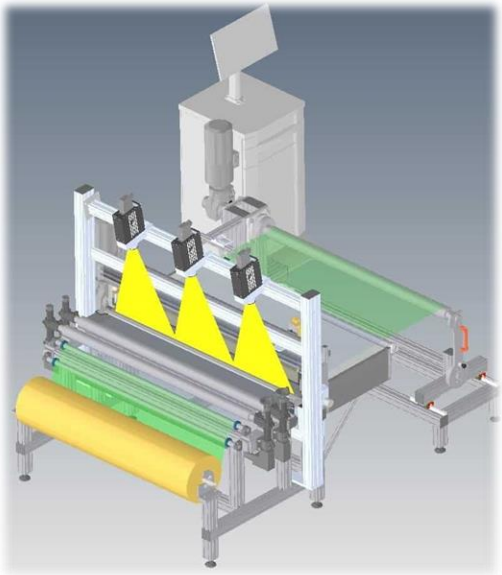


Material Report

material:	Type 2_4 50 Mesh d 0.2 mm
Work Order:	megamorph to 20: edges 20 mm
customer:	customer
recipe:	Type 2
machine:	Dorstener Wire Tech
starting time:	Dec 7, 2017 7:16:16 AM
ending time:	Dec 7, 2017 7:25:15 AM
length [m]:	12.428

final statistic

12.428 m start [mm] stop [mm]	over all
01 Bright defect	5
02 2D Bright defect	0
10 Dark defect	18
11 2D Dark defect	0
21 small Dark defect	0
sum	23



100% camera control is an important procedure when the application for woven mesh does not allow any flaws and documentation are needed. The system consists of high resolution cameras, which continuously take images of the mesh. As the mesh is exposed to the cameras, it identifies and tracks all defects, including large openings, small openings, broken wires, physical damage and more.

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Inspection Services

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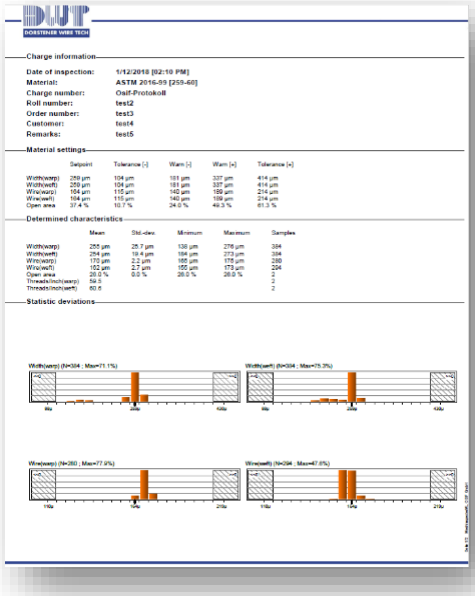
Mesh Check acc. to ISO 9044

The mesh quality is tested using a high resolution camera with a telecentric lens for capturing the images. The lens allows precise and distortion-free pictures of each opening. The test results show the measurements and the analysis of openings and wire diameters.
Standard deviation, mean value, min or max value and Cpk (process capability) allowing you to facilitate your incoming goods inspection.
€ 70,- incl. detailed test report


DWT
DORSTENER WIRE TECH

Charge information

Date of inspection:	1/12/2018 [02:10 PM]
Material:	ASTM 2016-99 [253-60]
Charge number:	Oxid-Protokoll
Roll number:	test2
Order number:	test3
Customer:	test4
Remarks:	test5

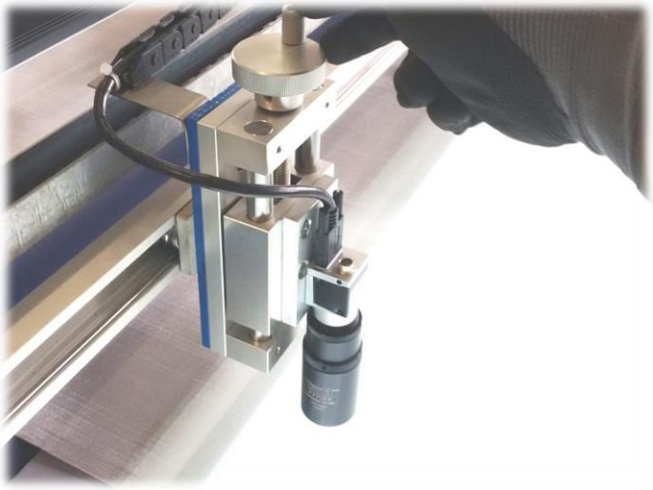
Material settings

	Setpoint	Tolerance [-]	Warn [-]	Warn [+]	Tolerance [+]
Width(warp)	259 µm	104 µm	181 µm	337 µm	414 µm
Width(weft)	259 µm	104 µm	181 µm	337 µm	414 µm
Wire(warp)	164 µm	115 µm	140 µm	188 µm	214 µm
Wire(weft)	164 µm	115 µm	140 µm	188 µm	214 µm
Open area	37.4 %	10.7 %	24.0 %	49.3 %	61.3 %

Determined characteristics

	Mean	Std.-dev.	Minimum	Maximum	Samples
Width(warp)	255 µm	26.7 µm	138 µm	276 µm	384
Width(weft)	254 µm	19.4 µm	184 µm	273 µm	384
Wire(warp)	170 µm	2.2 µm	165 µm	178 µm	288
Wire(weft)	162 µm	2.7 µm	155 µm	173 µm	294
Open area	28.0 %	0.0 %	28.0 %	28.0 %	2
Threads/inch(warp)	59.5				2
Threads/inch(weft)	60.5				2

Statistic deviations



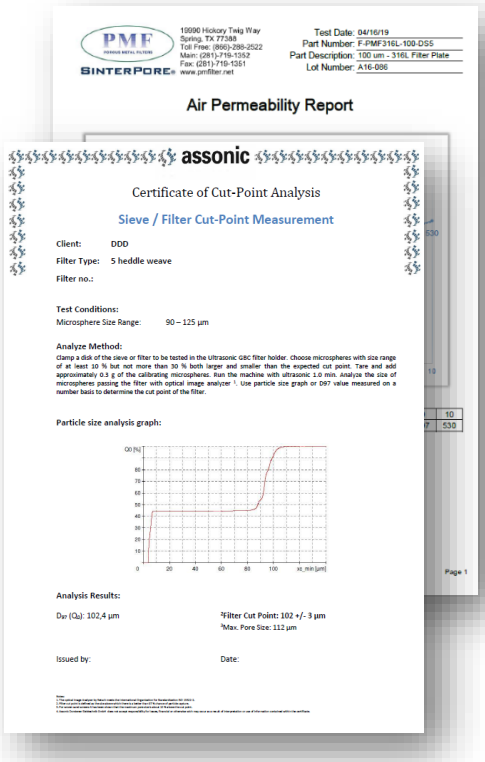
Other services:

Filter Cut Point measurement

Glass bead challenge test € 190,-

Air Permeability test € 150,-

XFA – material analysis € 90,-


PMF
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19990 Hickory Twig Way
Spring, TX 77388
Toll Free: (866)-288-2522
Main: (281)-719-1352
Fax: (281)-719-1351
www.pmfilter.net

Test Date: 04/16/19
Part Number: F-PMF316L-100-DS5
Part Description: 100 um - 316L Filter Plate
Lot Number: A16-086

Air Permeability Report

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Certificate of Cut-Point Analysis

Sieve / Filter Cut-Point Measurement

Client: DDD
Filter Type: 5 heddle weave
Filter no.:

Test Conditions:
Microsphere Size Range: 90 – 125 µm

Analyze Method:
Clamp a disk of the sieve or filter to be tested in the Ultrasonic GBC filter holder. Choose microspheres with size range of at least 10 % but not more than 30 % both larger and smaller than the expected cut point. Tare and add approximately 0.3 g of the calibrating microspheres. Run the machine with ultrasonic 1.0 min. Analyze the size of microspheres passing the filter with optical image analyzer [1]. Use particle size graph or D97 value measured on a number basis to determine the cut point of the filter.

Particle size analysis graph:

Analysis Results:

D_{97} (Q_0): 102,4 µm

[2]Filter Cut Point: 102 +/- 3 µm
[3]Max. Pore Size: 112 µm

Issued by:

Date:

All inspection services are performed in-house according to general standards or customer demand with qualified and monitored measuring equipment or are contracted out to accredited laboratories.