

Replacement ROTEX screens and accessories to handle your Rotex® or Sprout® rectangular gyratory separator requirements.

### *Properties of Stainless Steel Wire Mesh:*

**SS 304:** The basic alloy. Type 304 (18-8) is an austenitic steel possessing a minimum of 18% chromium and 8% nickel, combined with a maximum of 0.08% carbon. It is a nonmagnetic steel which cannot be hardened by heat treatment, but instead, must be cold worked to obtain higher tensile strengths. The 18% minimum chromium content provides corrosion and oxidation resistance. The alloy's metallurgical characteristics are established primarily by the nickel content (8% mm.), which also extends resistance to corrosion caused by reducing chemicals. Carbon, a necessity of mixed benefit, is held at a level (0.08% max.) that is satisfactory for most service applications.

**SS 316:** For severe environments. Of course, there are many industrial processes that require a higher level of resistance to corrosion than Type 304 can offer. For these applications, Type 316 is the answer. Type 316 is also austenitic, non-magnetic, and thermally nonhardenable stainless steel like Type 304. The carbon content is held to 0.08% maximum, while the nickel content is increased slightly. What distinguishes Type 316 from Type 304 is the addition of molybdenum up to a maximum of 3%. Molybdenum increases the corrosion resistance of this chromium-nickel alloy to withstand attack by many industrial chemicals and solvents, and, in particular, inhibits pitting caused by chlorides. As such, molybdenum is one of the single most useful alloying additives in the fight against corrosion

**SS 430:** The general purpose alloy of the ferritic class and the most popular of straight chromium (17%) stainless steels. Has magnetic properties similar to carbon steel but with much higher corrosion resistance. Commonly used in the food processing industry



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Screen Opening		Synthetic Monofilament (microns/percentage of open area)		Tensile Bolting Cloth			Mill Grade			Market Grade			Screen Opening		Standard Test Sieve	
inches	microns	Nylon	Polyester	mesh	diameter	% open area	mesh	diameter	% open area	mesh	diameter	% open area	inches	micro ns	U.S. Sieve No.	Tyler Equivalent
0.0051	130	N-130 / 52	P-130 / 37											0	130	
0.0051	129			135	0.0023	0.47								0	129	
0.0049	125	N-125 / 45												0	125	
0.0049	125	N-125 / 41												0	125	
0.0049	125	N-125 / 39												0	125	
0.0049	125	N-125 / 38												0	125	120
0.0047	120	N-120 / 49												0	120	115
0.0047	120	N-120 / 44	P-120 / 41											0	120	
0.0047	120		P-120 / 38											0	120	
0.0047	120		P-120 / 34											0	120	
0.0047	119			145	0.0022	0.46								0	119	
0.0048	118													0	118	
0.0048	118	N-118 / 41								120	0.0037	0.31		0	118	
0.0045	115	N-115 / 37	P-115 / 36											0	115	
0.0045	115	N-115 / 35												0	115	
0.0044	112	N-112 / 42												0	112	
0.0044	112	N-112 / 40												0	112	
0.0044	112	N-112 / 37												0	112	
0.0043	110	N-110 / 47												0	110	
0.0042	106	N-106 / 40												0	106	
0.0041	105	N-105 / 32	P-105 / 52											0	105	
0.0041	105		P-105 / 33											0	105	
0.0041	104									150	0.0028	0.37		0	104	
0.0041	103	N-103 / 39												0	103	
0.004	102		P-102 / 44											0	102	
0.0039	100	N-100 / 47												0	100	
0.0039	100	N-100 / 44												0	100	
0.0039	100	N-100 / 39												0	100	
0.0039	100	N-100 / 38								160	0.0024	0.36		0	100	
0.0039	100	N-100 / 32	P-100 / 32											0	100	
0.0038	97			180	0.0018									0	97	
0.0037	95	N-95 / 46												0	95	
0.0037	95	N-95 / 33	P-95 / 27											0	95	
0.0035	90	N-90 / 49	P-90 / 31											0	90	
0.0035	90	N-90 / 38	P-90 / 30											0	90	170
0.0034	86			200	0.0016	0.46								0	86	170
0.0033	85	N-85 / 35	P-85 / 46											0	85	
0.0033	85	N-85 / 34												0	85	
0.0033	84									180	0.0023	0.35		0	84	
0.0031	80		P-80 / 33											0	80	
0.0031	80	N-80 / 41												0	80	
0.0031	80	N-80 / 37	P-80 / 24											0	80	
0.0031	80	N-80 / 32	P-80 / 32											0	80	
0.0031	80	N-80 / 29												0	80	
0.0031	79	N-79 / 39												0	79	
0.003	76	N-76 / 28												0	76	
0.0029	75	N-75 / 34												0	75	200
0.0029	74	N-74 / 21	P-74 / 34	220	0.0014	0.48				200	0.0021	0.34		0	74	200
0.0029	73		P-73 / 40											0	73	
0.0028	70	N-70/49	P-70 / 28											0	70	
0.0028	70	N-70 / 41												0	70	
0.0028	70	N-70 / 33												0	70	
0.0027	68	N-68 / 37	P-68 / 38											0	68	
0.0025	64	N-64 / 47												0	64	
0.0025	64	N-64 / 45	P-64 / 45											0	64	
0.0025	64	N-64 / 32												0	64	
0.0025	63	N-63 / 30												0	63	230
0.0024	62	N-62 / 40	P-62 / 35											0	62	250
0.0024	61									250	0.0016	0.36		0	61	
0.0024	60	N-60 / 42												0	60	
0.0024	60	N-60 / 35												0	60	
0.0024	60	N-60 / 32												0	60	
0.0023	58	N-58 / 22												0	58	
0.0022	56	N-56 / 31												0	56	
0.0022	55		P-55 / 31											0	55	
0.0022	55		P-55 / 27											0	55	
0.0021	54		P-54 / 24											0	54	
0.0021	53		P-53 / 40											0	53	270
0.0021	53	N-53 / 30	P-53 / 30							270	0.0016	0.32		0	53	270
0.002	52	N-52 / 32												0	52	
0.002	51		P-51 / 33											0	51	
0.002	50	N-50 / 37												0	50	
0.002	50	N-50 / 31												0	50	
0.0019	48	N-48 / 31												0	48	
0.0017	44	N-44 / 27	P-44 / 25											0	44	325
0.0017	43									325	0.0014	0.3		0	43	325
0.0017	42	N-42 / 25												0	42	
0.0016	41	N-41 / 31	P-41 / 28											0	41	
0.0016	41		P-41 / 23											0	41	
0.0016	40		P-40 / 27											0	40	
0.0016	40	N-40 / 26	P-40 / 25											0	40	
0.0015	39	N-39 / 29												0	39	
0.0015	38	N-38 / 28	P-38 / 31							400	0.001	0.36		0	38	400
0.0015	38	N-38 / 22	P-38 / 20											0	38	400
0.0014	35	N-35 / 27	P-35 / 11											0	35	

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