

## Mesh Micron Inch Comparisons Flow Rate Comparisons

### MICRON-MESH-INCHES COMPARISON

MICRON	MESH	INCHES
4,760	4	.2250
2,380	8	.0937
1,307	10	.0787
1,410	14	.0555
841	20	.0331
710	25	.0280
595	30	.0232
500	35	.0197
400	40	.0165
354	45	.0138
297	50	.0117
250	60	.0098
210	70	.0083
177	80	.0070
149	100	.0059
125	120	.0049
105	140	.0041
88	170	.0035
74	200	.0029
62	230	.0024
53	270	.0021
44	325	.0017
37	400	.0015
25	550	.0009
15	800	.0006
10	1,250	.0004
5	2,500	.0002

### FLOW RATE

GPM	GPH
10	600
12	720
15	900
20	1,200
30	1,800
40	2,400
50	3,000
60	3,600
70	4,200
80	4,800
90	5,400
100	6,000
120	7,200
150	9,000
180	10,800
200	12,000
250	15,000
300	18,000
400	24,000
500	30,000
600	36,000
700	42,000
800	48,000
900	54,000
1,000	60,000
1,400	84,000
1,500	90,000

### APPROXIMATE VISCOSITY SAMPLE TABLE\*

FLUID	CENTIPOISE	SUS
water @ 70° F.	1	32
crude oil	10	60
kerosene	10	60
standard fuel	12	71
anti-freeze	15	82
fuel oil	20	97
heavy crude oil	100	450
SAE 10 wt. oil	200	925
SAE 30 wt. oil	325	1,500
standard hydraulic oil	32	150
honey	2,500	11,900
asphalt at 200° F.	3,000	14,000

\*at standard operating temperatures

### RELATIVE SIZES OF PARTICLES

SUBSTANCE	MICRON	INCH
grain of table salt	100	.0039
human hair	70	.0027
lower limit of visibility	40	.00158
white blood cell	25	.0009
talcum powder	10	.0004
red blood cell	8	.0003
bacteria (average)	2	.000078