

Converting NAS 1638 to ISO 4406 or SAE AS4059

NAS 1638	ISO 4406	SAE AS4059 Tabell 1(2)	SAE AS4059 Tabell 2(2)
5-15 µm 15-25 µm 25-50 µm 50-100 µm >100 µm	>4 µm(c) >6 µm(c) >14 µm(c)	4-6 µm(c) 6-14 µm(c) 14-21 µm(c) 21-38 µm(c) 38-70 µm(c) >70 µm(c)	>4 µm(c) >6 µm(c) >14 µm(c)
12	23/21/18	12	13A/12B/12C
11	22/20/17	11	12A/11B/11C
10	21/19/16	10	11A/10B/10C
9	20/18/15	9	10A/9B/9B
8	19/17/14	8	9A/8B/8C
7	18/16/13	7	8A/7B/7C
6	17/15/12	6	7A/6B/6C
5	16/14/11	5	6A/5B/5C
4	15/13/10	4	5A/4B/4C
3	14/12/9	3	4A/3B/3C

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(2) Size range, APC calibrated per ISO 11171 or an optical or electron microscope with image analysis software, based on projected area equivalent diameter (c).

NAS 1638 Cleanliness Requirements of Parts Used in Hydraulic Systems (Inactive for new design and not for use with automatic particle counters). Sizing in Maximum Diameter (MD)

NAS 1638 classes used in current specifications can be converted directly to AS4059 contamination classes. In the simplest form, where NAS 1638 Class 6 is currently specified, AS4059 Class 6 applies. Similarly, to designate a fluid contamination class equivalent to NAS 1638 Class 6 one would specify: Fluid contamination class shall meet AS4059 Class 6.

Source: SAE AS4059 revision G

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