SPECIFICATION	API / IP SPECIFICATION 1581, 5 <sup>th</sup> EDITION		MIL-PRF-52308H (SUPERSEDING MIL-PRF-52308G and MIL-F-8901E)	
MEDIA MIGRATION	10% rated flow for 30 minutes 6 psid maximum across filter/coalescer stage, 10 psid across vessel with new elements at rated flow		100/80/60/40/20/115% rated flow - 10 minutes each rate	
Initial differential pressure:			5 psid at 115% of rated flow	fi
Maximum fiber content:	10 fibers per liter maximum		Average 10 Fibers per liter max, s	ing
WATER REMOVAL	TYPE S	TYPE S-LW	0.01% @ 115% rated flow - 60 mins	Γ
	0.01% @ 100% rated flow - 30 minutes (after 30 minute conditioning run @ 10% rated flow)		1.0% @ 100/80/60/40/20/115% rated flow - 10 mins each rate	
	0.01% @ 100% rated flow - 90 minutes (after first solids addition test)		3.0% @ 100% rated flow with solids add - 70 mins	
•• • • •		1/2% @ 100% rated flow - 15 minutes	5.0% @ 115% rated flow - 30 mins	Ļ
Maximum free water:	15 ppm by Aqua-Glo No specification requirement		5 ppm - Aqua-Glo 0.5% by volume	+
Maximum fuel in sump water: CONTAMINANT REMOVAL			10% Red Iron Oxide R-9998	L
CONTAMINANT REMOVAL	TYPE S	TYPE S-LD	143 milligrams per gallon dry solids - 1st set of elements	Γ
	72 milligrams per gallon solids run follows first 0.01% water run		143 milligrams per gallon solids with 3.0% water - 2nd set of elements (part of water/water+solids /water sequence)	
Capacity - per rated flow:	5.4 grams per gpm No	specified capacity (solids are added until	10 grams per gpm	T
Max differential pressure:		5 psid is reached, then fuel flow continued for remainder of 45 minute solids time)	20 psid max @ 30 mins 40 psid max @ 70 mins	
Maximum solids content:	1.0 milligrams per gallon max		Average 1.9 milligrams per gallon max Single sample 3.79 milligrams per gallon max	
Structural strength:	75 psid for 5 minutes at rated flow with no rupture, leaks	bypassing, or bleeding through pinhole	75 psid for 5 minutes without structural failure	
INHIBITED FUEL ADDITIVES	CATEGORY C CATEGORY	M CATEGORY M100		
Additive 1:	1.0 milligrams per liter STADIS 2.0 milligrams per liter STADIS 450   450 15 milligrams per liter DCI-4A   N/A 0.15% Di-EGME   N/A 256 milligrams per liter SPEC   AID 8Q462		All tests include: 2 milligrams per liter STADIS 450 (or more to reach 150 pS/m minimum), 0.2% Di-EGME, 0.19 pounds per 1000 gallons DCI-4A, and 0.4 milligrams per liter Petronate L	
Additive 2:				
Additive 3: Additive 4:				
FUEL TEMPERATURE	5 deg C minimum to 32 deg C		ed within +/- 6 deg C of starting temperature for	a
LIFE TEST	No specification requirement		125 hours when specified. Includes addition of 0.1% water, 5% water, and solids addition at various times	Ī
	No testing specified. The manufacturer shall guarantee the unit shall not be adversely affected by exposure to temperatures varying from -54 deg C to +71 deg C, and element media, gaskets, and sealing material and any internal coating shall not deteriorate as a result of exposure to fresh water, salt water, or aviation fuels and shall not promote the growth of fungi.		100 hours fuel soak, then 72 hours salt water soak, then .01% water at rated flow for 30 mins	c h
COMPATIBILITY WSIM: Water Reaction:	Separate soaks for 336 hours (plus additional 336 hours for solutions 1, 2, and 4) in the following solutions, followed by Structural Test to 75 psid at rated flow: 1. Jet A (or Jet A-1); 2. Jet A (or Jet A-1) + 12 mg/l HITEC E-580 + 3 mg/l STADIS 450; 3. 100% Di-EGME; 4. 30% toluene / 70% iso-octane Minimum 85 after soak Maximum 1B after soak		No specificatio	on
		nits after soak		

(SUPERSEDING Mil-PRF-52308H)

Same as for API/IP 1581

6 psid maximum across cartridges at rated flow (total DP across f/s vessel with cartridges minus total DP across f/s vessel without cartridges)

ngle sample 15 fibers per liter max

Same as for API/IP 1581

15 ppm by Aqua-Glo No specification requirement

Same as API/IP 1581

5.4 grams per gpm

Same as for API/IP 1581, Type S

Average 1.0 milligrams per gallon max Single sample 1.9 milligrams per gallon max 75 psi without structural failure or permanent deformation

Same as for API/IP 1581, Category M and Category M100

any individual test series.

No specification requirement

Drop each packaged element onto flat concrete surface from 48 inches - no evidence of cracks or deformation or damage. 100 hours fuel soak at temperatures ranging from -46 deg C to +71 deg C, then 72 hours salt water soak. Elements shall show no evidence of swelling, corrosion, separation of components, dissolving of adhesives, or deformation.

on requirement