

421[®] ROBUST FILTER



Particulate contamination is one of the main sources of failure in a helicopter hydraulic system that can result in high risks, both to human life and equipment cost if a failure occurs during mission-critical operations.

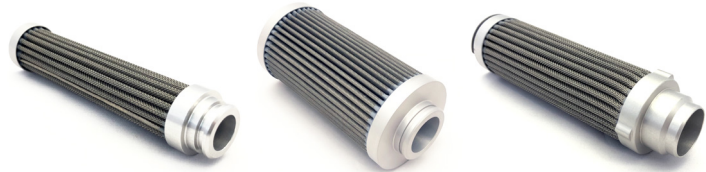
Through rigorous testing, PTI's robust filter element design outperformed the original qualified micro-fiberglass media filter element design. AllClear is proud to partner with PTI in serving the international markets on the 421[®] Filter Elements.

- Improves performance of the hydraulic system
- Extends components' life
- Reduces annual maintenance costs
- Higher level of operational reliability and improved safety

PLATFORM	OLD FILTER NSN	NEW FILTER NSN	PTI PN
H-60	1650-01-114-1899	1650-01-601-1254	7596335-101
AH-64	1650-01-328-5588	1650-01-642-2829	7595726-101
AGPU	4330-01-484-0896 4330-01-484-0891	2940-01-605-7088	7600570-101

Why You Should Select 421[®] Robust Filter

PTI Technologies' random fiber filter media is the highest performance media on the market today. It will give you a higher purity end product, a lower pressure drop, and a higher contaminant retention capacity than either woven metallic wire cloth or sintered powder metal. 421[®] robust filter elements are ideal for filtration of high viscosity, high temperature, high vibration, dynamic, or corrosive fluid applications.



Comparison of MTBF Values for Major Hydraulic Components (H-60)

FAILED COMPONENT	LEGACY FILTERS		NEW FILTERS		PERCENT INCREASE IN MTBF
	NO. OF FAILURES	MTBF (HRS)	NO. OF FAILURES	MTBF (HRS)	
HYDRAULIC PUMP	285	705.40	25	1389.48	97.0
PRIMARY SERVO	310	648.51	25	1389.48	114.3
SAS ACTUATOR (PITCH TRIM)	157	1280.50	19	1828.27	42.8
SAS ACTUATOR (ROLL)	34	5912.9	4	8684.28	46.9
SAS ACTUATOR (YAW BOOST)	47	4277.42	5	6947.42	62.4
TAIL ROTOR SERVO	69	2913.6	7	4962.44	70.3