ANTIG-G GARMENT, ARAMID MUSTANG MODEL MSF830
NSN 8475-21-912-6415/21
(THE MSF830 IS A QUALIFIED COMPONENT OF CAF STING ENSEMBLE)

The Mustang MSF830 is a full coverage, increased protection Anti-G garment designed to provide maximum protection in modern high performance fighter/attack aircraft during high G maneuvers.

The optimized lower torso and leg bladder coverage dramatically improves the pilot’s tolerance to G and is highly effective in delaying the onset of G-induced loss of consciousness (GLOC) which occurs when blood pressure within the brain drops below a critical level. GLOC is associated with the rate at which G builds up as well as its magnitude and duration, and is of significant concern since modern aircraft designs increasingly emphasize agility and rapid rates of maneuver.

By using the most up-to-date materials and technology and following a rigorous quality assurance system certified to the internationally recognized ISO9001 and AQAP 1, Mustang manufactures the highest quality pressure garments available. The MSF830 provides consistent and reliable performance in the most demanding acceleration environments.

The suit provides maximum, full circumferential coverage of the legs and thighs along with abdominal coverage for maximum counterpressure effectiveness without causing abdominal discomfort. The knee openings provide enhanced mobility and aircrew comfort.

The configuration is an interconnected five bladder design incorporating expansion limiters for an additional degree of safety.

Adjustment of the suit for individual fitting is provided by vertical lacing loops.
Compatibility
The MSF830 Anti-G Garment is fitted with quick disconnect attachments for compatibility with any aircraft inflation valve system. The standard male connector fitting conforms to Military Standard MIL-C-83390 for connection to all MIL-V-87223 pressure regulating valves commonly used on the F-14, F-16, and F-18 series aircraft and others. Garments can also be fitted with connectors to fit Mirage inflation valve systems. Other configurations may be available where required.

Performance Testing
All garments are fully tested and proven to ensure reliable performance. Every MSF830 produced is tested for pressure holding at 83 kPa (12 psig), for rate of inflation to 41 kPa (6 psig), and proven 100% leak tight. Mustang has developed a computer controlled test platform where the pressure is actually supplied through a simulated Anti-G inflation valve. The test is monitored so that a print-out is provided for each suit, by serial number. Tests are performed at an air flow of 4.7 liters per second (10 SCFM).

Qualification of the MSF830 design is proven through rigorous endurance tests of greater than 2,000 pressure cycles of 0 to 103 kPa (15 psig) to 0, at a rate of 3 cycles per minute, without failure or performance loss.

Materials
The radio frequency welded pressure bladder is constructed from polyurethane coated nylon fabric which exceeds the requirements of both Mil Spec. MIL-C-83489 and AMS 3272. The outer garment is fully constructed from durable, fire resistant Nomex® aramide anti-static fabric, which exceeds the physical requirements of MIL-C-83429. All slide fastener closures are black finished brass on fire resistant aramide tape, conforming to Federal Standard V-F-06.

Sizes
SR - Small Regular - NSN 8475-21-912-6415
SL - Small Long - NSN 8475-21-912-6416
MR - Medium Regular - NSN 8475-21-912-6417
ML - Medium Long - NSN 8475-21-912-6418
LR - Large Regular - NSN 8475-21-912-6419
LL - Large Long - NSN 8475-21-912-6420
LXL - Large Extra Long - NSN 8475-21 912-6421

Weight
Approximately 1.4 kg (3 lbs.).

Colour
Sage Green

CAGE/NSCM/FSC 37463