SALIENT CHARACTERISTICS

FOR

Brand Name or Equal - Snap On

1.0. SCOPE OF WORK:

All proposed products shall meet or exceed the following minimum specifications outlined

in this Salient Characteristics. All items shall be delivered to the 55 Rescue Generation Squadron

1.1. PRODUCT PERFORMANCE SPECIFICATION:

1.1.1. Wrenches, sockets, ratchets and pliers:

- Meet or exceed ASME standards B107.100-2010.
- Hand tools have nickel-chrome plating (Zinc finish on Allen wrenches and safety wire pliers).
- Ratchets have a sealed head design, constructed to seal in permanent lubrication and seal out dust, dirt, moisture
- and other contaminants.
- Sockets have double chamfer at both the drive and wrench openings as well as four grooved detents that allows
- secure attachment to the socket.
- Socket extensions have knurled surface at drive end and a double chamfer design at both ends.
- 80 tooth design for 3/8 and 1/2-inch drive ratchets; 72 tooth for 1/4-inch drive and dual pawl mechanism for all.
- Wrenches have 7.5° offset broaching.
- Wrenches, sockets and nut drivers have a Flank-drive style design.
- Compact durable index with individual holes for Allen Wrench Sets (metric and standard) w/ retention mechanism
- to prevent wrenches from falling out. The size of the applicable wrench is printed on the case.
- Adjustable wrenches, pliers & side cutters have highly visible elastomer cushion grips to prevent hand slippage.
- Sockets and wrench box ends have smallest outside diameter possible to provide clearance in limited access
- situations.

- All torque wrenches are on the AFMETCAL listing of test equipment that the Government PMEL can calibrate.

1.1.2. Screwdrivers:

- Wide tri-lobe design in the center of the handle and Snap-on® bolstered, special alloy steel blade supply turning
- power when needed.
- Tip identifier on the crown helps to quickly identify the needed tool.
- Handles have a highly visible color for quick location of tool.
- Soft grip handles provide increased comfort and control with a rounded crown (not fluted) while resisting most
- shop solvents.
- Nickel/chrome-plating helps protect against corrosion and promotes easy clean up.
- Soft grip handle provides maximum turning power and greater comfort.
- Precision cut and vapor-blasted tips for the best possible grip and help prevent chrome plating from peeling.
- Replaceable blades, cold forged from high carbon alloy steel and heat treated for optimum strength and durability.
- Hexagon bolster prevents blade from being forced into handle and provides wrench assisted turning.

1.1.3. Hammers:

- Plastic face has ribbed, textured grip with energy absorbing microcellular to material enhance comfort and reduces vibration.
- Handles have chemical resistant urethane covering and multi-position hand grip to allow user to "choke up" in tighter work areas.
- All have wide flare at end of handle helps prevent slipping.

1.1.4. Punches and Chisels

- Anvil end on heads of punches and chisels are machined to a modified parabolic curve to control mushrooming and reduce chipping.
- Machined and differentially heat treated for optimum performance.
- The hardness of the striking head is reduced to reduce mushrooming.

1.1.5. Prybars

- Blades have a precision-ground edge, with angled design for maximum leverage while lifting and pulling on bar.

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength.
- Industrial finish to help to protect against corrosion.
- Have ergonomic handle with tapered design for comfortable grip.
- Blades extend through the handles and contact the metal end caps to provide a continuous, solid, striking force.
- Have flared end on handles to offer protection from off-center handle strikes.

1.1.6. Tool Boxes

- Toolboxes have 14-gauge steel super-duty skid support systems.
- Toolboxes have 16-gauge steel on top, bottom, sides and back.
- Toolboxes have 4 corner gussets each.
- Casters are heavy duty with a weight capacity of 1700 pounds.
- Standing Seams create full perimeter support to strengthen top of box.
- Heavy-duty drawer slides support up to 227 lb per set.
- Toolboxes have Lock 'N Roll® System to prevent drawers from drifting open when the unit is moved

1.1.7. Etching

- Each individual tool, and tool cases for small tools, will have laser etching of the Worldwide Identification (WWID)
- which will be supplied by the customer.
- Markings are clear and readable and will not affect the function of the tool and will not cause corrosion problems.
- Etching will not be applied to the shafts of screwdrivers, calibrated measuring surfaces, and impact surfaces.
- Etching will not adversely affect the chrome plating on plated tools. Etching will not be provided on items listed as
- “customer furnished” or “customer supplied tools”.
- Etching on handling surfaces will not present an injury hazard to the hand.
- Safety glasses and goggles will not be etched in the “viewing area”.

1.2. Quantity and tool Type

Must be able to Supply tools or equivalents in the quantity Listed in the Excel document labeled Tac-Pac Items list.

1.3. Backpack specifications

1.1.6. TOP LAYER FOAM PRODUCTS

1.1.6. 1. PHYSICAL CHARACTERISTICS:

- Cross-linked polyethylene, skinned top and bottom
- Thickness: 1/8”-4” (determined by what is required to hold tool securely in its cut-out location, no less than ½”)
- Colors: BLACK

1.1.6. 2. TECHNICAL CHARACTERISTICS:

- Nominal Density (PCF): 3
- Tensile Strength (PSI): 70
- Elongation (% to break): 150
- Tear Resistance (lb/in): 17
- Compression Strength (PSI)
- (25% deflection): 12
- Compression Set
- (% of original thickness): 18
- Thermal Stability
- (% of chg @ 158 degrees for 24 hrs): <.6
- Working Temperature Range -70 degrees F to 175 degrees F
- Water Absorption (lb/ft2/degree F) : <.05
- Melting Point 219degreesF-280degreesF
- Auto Ignition Point >60 degrees F

1.1.6. 3. CHEMICAL RESISTANCE CHARACTERISTICS

Tested in accordance with ASTM D543-2000. Resistant to all common solvents, oils, hydraulic fluids, skydrol, etc.

1.1.6. 3. MACHINING CAPABILITY:

Foam will be water jet cut to maintain the physical properties required to adequately meet varying retention requirements of customer.

1.1.6. 3. FOAM JOINING:

- The base and top layers must be securely adhered together, with no adhesive residue in tool cut-outs.
- Adhesive method must resist common chemicals.