

When it comes to MRO supplies, quality products make all the difference!

CUTTING TOOLS

Bandsaw Blades
Cobalt Drills
End Mills
Hacksaw Blades
Hole Saws
Masonry Drills
Pro™ Drills / Quad Point™ Drills
Reciprocating Blades
Rotary Files
Step Drills
Taps / Dies
Tungsten Carbide Blades

CHEMICALS - Red Lion™ Brand

Adhesives
Aerosols
Bulk Containers
Cleaners / Degreasers
Cutting Fluids
Food Grade
Lubricants
Odor Control
Paints
Solvents
Tool Coolants

SHOP SUPPLIES

Abrasives
Eye Bolts
Grinding / Cut-Off Wheels
Hose Clamps
Key / Bar Stock
LED Safety Lighting
Mounted Points
"O" Rings
"S" Hooks
Screw Extractors
Springs
Tape
Wire Brushes

FASTENERS

Anchors
Brass
Carriage / Plow Bolts
Flange Bolts
High Strength Cap Screws
Machine Screws
Metal Screws
Metrics
Retaining Rings
Socket / Set Screws
Stainless
Threaded Rod

ELECTRICAL

Battery Cable
Bulbs
Cable Clamps
Connectors
Fuses
Insulation
Primary Wire
Shrink Tubing
Split Bolts
Tape
Terminals
Wire Ties

FLEET

Air Brake Fittings
Air Brake Hose
Air Chucks
Battery Terminals
Bulbs
Flange / Manifold Bolts
Fuses
Gladhands
Grease Fittings
Hose Repair Kits
Ignition Terminals
Vacuum Hose / Fittings

HYDRAULICS

Black Iron Pipe
Brass
Coll-O-Crimp
Compression
Flare
Grease
Hose
Instant
Reusable
Steel
Tubing
Vacuum

WELDING - Auralloy™ Brand

210 - Mild Steel
225 - High Strength Steel
250 - Stainless Steel
300 - Cast Iron
400 - Chamfering
500 - Solder
600 - Aluminum
700 - Brazing
800 - Hi-Strength Brazing
900 - Hard Surfacing
Fluxes
Jigging / Heat Dam Putty

FIRST AID/SAFETY

Bandages
Cabinets
Eyecare
First Aid Kits
Gloves
Hi-Vis Clothing
Ointments
Safety Glasses
Tablets
Wipes



EXCEPTIONAL PRODUCTS, SERVICE AND INNOVATIVE SOLUTIONS

5250-A Naiman Parkway . Solon . OH 44139

010113

1-800-BUY-BOLT . Fax: 631-567-2418 . www.chromate.com

LT21247



TORQUE SPECS - CAP SCREWS

HEX HEAD (FT. LBS.)								HEX SOCKET (FT. LBS.)						
SIZE	ALLOY 200		GRADE 8		GRADE 5		WRENCH SIZE	SOCKET	HEX KEY SIZE	BUTTON	HEX KEY SIZE	FLAT	HEX KEY SIZE	SIZE
	HEX NUT	LOCKNUT	HEX NUT	LOCKNUT	HEX NUT	LOCKNUT								
1/4-20	10	8	7	6	5	4	7/16	17	3/16	125	5/32	140	5/32	1/4-20
1/4-28	12	8	9	6	6	4	7/16	19	3/16	125	5/32	140	5/32	1/4-28
5/16-18	20	17	15	12	10	9	1/2	35	1/4	200	3/16	245	3/16	5/16-18
5/16-24	22	17	17	12	12	9	1/2	38	1/4	200	3/16	245	3/16	5/16-24
3/8-16	36	30	26	22	19	15	9/16	62	5/16	360	7/32	400	7/32	3/8-16
3/8-24	41	30	30	22	21	15	9/16	70	5/16	360	7/32	400	7/32	3/8-24
7/16-14	58	48	42	35	30	25	11/16	100	3/8	—	1/4	600	1/4	7/16-14
7/16-20	65	48	47	35	33	25	11/16	109	3/8	—	1/4	600	1/4	7/16-20
1/2-13	87	74	64	53	45	38	7/8	150	3/8	1000	5/16	1200	5/16	1/2-13
1/2-20	100	74	72	53	51	38	7/8	172	3/8	1000	5/16	1200	5/16	1/2-20
9/16-12	125	106	92	77	66	54	13/16	—	—	—	—	—	—	9/16-12
9/16-18	140	106	102	77	72	54	13/16	—	—	—	—	—	—	9/16-18
5/8-11	175	147	127	106	90	75	15/16	283	1/2	1750	3/8	2000	3/8	5/8-11
5/8-18	200	147	144	106	100	75	15/16	317	1/2	1750	3/8	2000	3/8	5/8-18
3/4-10	310	260	226	188	160	133	1-1/8	500	5/8	—	1/2	4000	1/2	3/4-10
3/4-16	345	260	252	188	180	133	1-1/8	562	5/8	—	1/2	4000	1/2	3/4-16
7/8-9	500	415	364	303	260	197	1-5/16	688	3/4	—	9/16	6000	9/16	7/8-9
7/8-14	590	415	400	303	285	197	1-5/16	767	3/4	—	9/16	6000	9/16	7/8-14
1 - 8	750	620	545	455	390	295	1-1/2	1040	3/4	—	5/8	8500	5/8	1 - 8
1 - 14	810	620	597	455	435	295	1-1/2	1080	3/4	—	5/8	8500	5/8	1 - 14
1-1/8 - 7	1050	885	773	644	480	397	1-11/16	—	—	—	—	—	—	1-1/8 - 7
1-1/8 - 12	1170	885	866	644	540	397	1-11/16	—	—	—	—	—	—	1-1/8 - 12
1-1/4 - 7	1500	1250	1090	908	670	560	1-7/8	2080	7/8	—	—	—	—	1-1/4 - 7
1-1/4 - 12	1650	1250	1207	908	745	560	1-7/8	2310	7/8	—	—	—	—	1-1/4 - 12
1-3/8 - 6	1950	1640	1430	1190	880	734	2-1/16	—	—	—	—	—	—	1-3/8 - 6
1-3/8 - 12	2220	1640	1627	1190	1000	734	2-1/16	—	—	—	—	—	—	1-3/8 - 12
1-1/2 - 6	2600	2175	1897	1580	1170	975	2-1/4	3625	1	—	—	—	—	1-1/2 - 6
1-1/2 - 12	2900	2175	2134	1580	1320	975	2-1/4	4080	1	—	—	—	—	1-1/2 - 12

NOTES: The above lubricated torque values are recommended assembly specifications for the various grades of Chromate fasteners with the following guidelines:

- Torque values for hex head cap screws are for turning the nut while holding the head of the cap screw with a wrench. In applications where access to the nut is limited, increase the torque value by 20% for tightening by the cap screw head.
- Lubricated torque values are based on using Chromate's RED LION™ Anti-Seize Compound (P/N's 74118 or 74407) to the threads prior to assembly.

CAUTION: The above data should only be used as a reference guide. The proper torque can only be determined by analyzing the design parameters which include temperature, plating, lubrication, etc. Short time tensile, creep and stress relaxation should be considered for applications where the temperature exceeds 400°F (204°C). Lower ductility, impact strength and fatigue life must be considered for screws subject to temperatures below -20°F (-29°C). All socket screw products are class 3A fit except size 1-1/4" and larger which are class 2A fit.