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STUDBOLT MATERIAL GRADES AND TYPES OF PETRO-CHEMICAL FASTENERS

| Bolting Grades | |
|-----------------------|--|
| ASTM A193 | <ul style="list-style-type: none"> • B6 • B7 • B7M • B8 class 1 & 2 • B8M class 1 & 2 • B8T class 1 & 2 • B8C |
| ASTM A320 | <ul style="list-style-type: none"> • L7 • L7M • L43 |
| ASTM A453 | <ul style="list-style-type: none"> • 660A • 660B • 660D |
| ASTM A182, A276, A479 | <ul style="list-style-type: none"> • 31803 • 32760 SA, FG, FLT |

| Nut Grades | |
|-----------------------|---|
| ASTM A194 | <ul style="list-style-type: none"> • 2H • 2HM • 4 • 7 • 8 • 8M • 8A • 8MA • 8T • 8C |
| ASTM A453 | <ul style="list-style-type: none"> • 660A • 660B • 660D |
| ASTM A182, A276, A479 | <ul style="list-style-type: none"> • 31803 • 32760 |

| Fastener Types | |
|------------------------------|--|
| STUDBOLTS | <ul style="list-style-type: none"> • ANSI B16.5 • DIN 976 • BS4882 |
| STUDDING HEX | <ul style="list-style-type: none"> • DIN 975 • 660D |
| BOLTS & BLANKS | <ul style="list-style-type: none"> • ANSI B18.2.1 • DIN 931 |
| SOCKET CAPSCREWS & BLANKS | <ul style="list-style-type: none"> • ANSI B18.3 • 1960 Series • DIN 912 |
| HEX NUTS | <ul style="list-style-type: none"> • ANSI B18.2.2 • DIN 934 H=D |
| 12 POINT FERRY HEAD BOLTS | <ul style="list-style-type: none"> • IFI115 |