

# SUPER DUPLEX 32750

## PREMIUM GRADE FASTENERS

STRENGTH. CORROSION RESISTANCE. RELIABILITY.

Super duplex stainless steel 32750 (UNS S32750) combines high strength with excellent corrosion resistance, making it ideal for the most demanding industrial environments.

### SPECIFICATIONS

|                       |                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------|
| Material Grade        | Super Duplex Stainless Steel 32750 (UNS S32750)                                                             |
| Standard              | ASTM A182   ASTM A193   ASTM A194<br>ASME B18.2.1   ASME B18.5   ASME B18.31.1                              |
| Type                  | Hex Bolts, Studs, Nuts, Washers,<br>Threaded Rods & Special Fasteners                                       |
| Size Range            | M6 to M100 (1/4" to 4")                                                                                     |
| Length                | Up to 3000 mm                                                                                               |
| Thread                | Metric (ISO)   UNC   UNF   BSW   Custom                                                                     |
| Surface Finish        | Bright   Black   Pickled   Passivated                                                                       |
| Marking               | SD32750 @Aanuraj (Laser Marking)                                                                            |
| Manufacturing Process | Hot Forging   CNC Machining  <br>Thread Rolling                                                             |
| Testing & Inspection  | Chemical Analysis   Mechanical Testing  <br>PMI Test   Dimensional Inspection  <br>NDT (As Per Requirement) |
| Certification         | EN 10204 3.1   Raw Material Test Certificates<br>  Third Party Inspection (If Required)                     |

### KEY FEATURES

- ✓ Excellent resistance to pitting, crevice & stress corrosion cracking
- ✓ High strength & superior toughness
- ✓ Good resistance to chloride environments
- ✓ Excellent fatigue & impact resistance
- ✓ Longer service life in aggressive conditions
- ✓ Low maintenance & life-cycle cost

### APPLICATIONS

- ✓ Oil & Gas (Onshore & Offshore)
- ✓ Chemical & Petrochemical Processing
- ✓ Desalination Plants
- ✓ Pulp & Paper Industry
- ✓ Power Generation (Condensers, Heatexchangers)
- ✓ Marine & Offshore Structures
- ✓ Water Treatment Plants
- ✓ Pharmaceutical & Food Processing



#### EXCEPTIONAL CORROSION RESISTANCE

Outstanding resistance to pitting, crevice & stress corrosion cracking.



#### HIGH STRENGTH & DURABILITY

Higher yield & tensile strength compared to standard stainless steels.

### CHEMICAL COMPOSITION (ASTM A182)

| Element         | Composition (%) |
|-----------------|-----------------|
| Chromium (Cr)   | 24.0 – 26.0     |
| Nickel (Ni)     | 6.0 – 8.0       |
| Molybdenum (Mo) | 3.0 – 5.0       |
| Nitrogen (N)    | 0.24 – 0.32     |
| Manganese (Mn)  | ≤ 1.20          |
| Silicon (Si)    | ≤ 0.80          |
| Carbon (C)      | ≤ 0.03          |
| Phosphorus (P)  | ≤ 0.035         |
| Sulfur (S)      | ≤ 0.020         |
| Iron (Fe)       | Balance         |

### MECHANICAL PROPERTIES (TYPICAL)

| Property                     | Typical Value  |
|------------------------------|----------------|
| Tensile Strength             | 800 – 1100 MPa |
| Yield Strength (0.2% Offset) | 550 – 800 MPa  |
| Elongation                   | ≥ 15%          |
| Hardness                     | ≤ 32 HRC       |

### WHY AANURAJ FASTENERS?

- ✓ Specialists in Stainless Steel & Exotic Grade Fasteners
- ✓ Advanced Manufacturing with Hot Forging & CNC Machining
- ✓ Strict Quality Control & 100% Traceability
- ✓ Custom Solutions as per Drawing or Requirement
- ✓ Timely Delivery & Reliable After-Sales Support
- ✓ Serving Critical Industries Across India & Globally

#### 1 SUPERIOR CORROSION RESISTANCE IN EXTREME ENVIRONMENTS

Outperforms standard stainless steels in chloride & sour service conditions.



#### 2 HIGH STRENGTH WITH EXCELLENT DURABILITY

Higher strength-to-weight ratio ensures safety, reliability & longer service life.



Call:  
**+919022702227**



Email:  
**sales@aanuraj.com**

