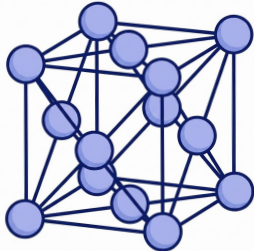
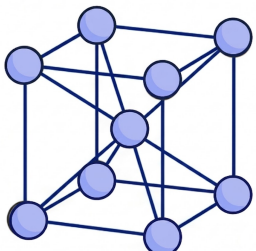
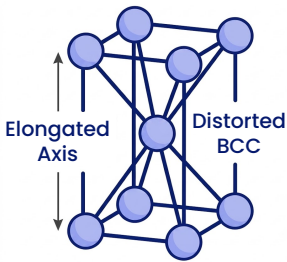
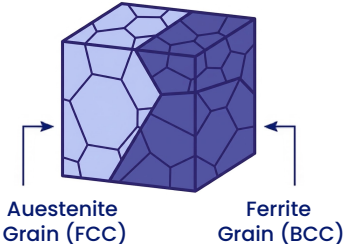
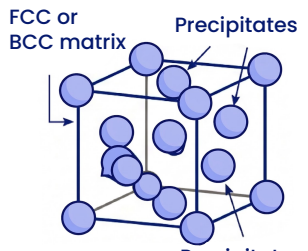


# TYPES OF STAINLESS STEEL

	Austenitic	Ferritic	Martensitic	Duplex	Precipitation-Hardening
Unit Cell Model	 <p>Face-Centered Cubic (FCC) Structure</p>	 <p>Body-Centered Cubic (BCC) Structure</p>	 <p>Body-Centered Tetragonal (BCT) Structure</p>	 <p>Coexisting Austenite (FCC) &amp; Ferrite (BCC) Grains</p>	 <p>FCC or BCC matrix with Precipitates</p>
Typical Hardness Range	~150–190 HB (Brinell)	~150–210 HB	Annealed: 155–225 HB; Hardened & Tempered: 45–55 HRC (Rockwell C)	220–300 HB	Annealed: 280–340 HB
Properties	<ul style="list-style-type: none"> <li>★ FCC crystal structure;</li> <li>★ High corrosion resistance;</li> <li>★ Formable, weldable;</li> <li>★ Non-magnetic</li> </ul>	<ul style="list-style-type: none"> <li>★ BCC crystal structure;</li> <li>★ Good corrosion resistance;</li> <li>★ Magnetic</li> </ul>	<ul style="list-style-type: none"> <li>★ BCT crystal structure;</li> <li>★ High strength &amp; hardness;</li> <li>★ Hardenable;</li> <li>★ Magnetic</li> </ul>	<ul style="list-style-type: none"> <li>★ Coexisting FCC and BCC grains;</li> <li>★ Very high strength;</li> <li>★ Excellent SCC (Stress Corrosion Cracking) resistance;</li> <li>★ Magnetic</li> </ul>	<ul style="list-style-type: none"> <li>★ Austenitic or Martensitic matrix;</li> <li>★ Precipitate strengthened;</li> <li>★ High strength</li> </ul>
Representative Grades	Grade 304, 316	Grade 409, 430	Grade 410, 420	Grade 2205	Grade 17-4 PH