

Material	Yield Strength (psi)	Tensile Strength (psi)	Rockwell B	Rockwell C	Brinell	Characteristics
A-36	36,000	58,000 - 80,000	69 - 86	~	118 - 167	Can be flame cut, formed, drilled, welded and machined by all normal means.
44-W	44,000	65,000 - 85,000	76 - 89	~	134 - 178	Can be flame cut, formed, drilled, welded and machined by all normal means.
COR-TEN	50,000	70,000	78	~	141	Can be flame cut, formed, drilled, welded and machined by all normal means. Atmospheric corrosion resistant.
AR225	65,000	105,000	~	20	224	Can be welded, cut, drilled, rolled formed and machined. Atmospheric corrosion resistant. Abrasion resistant.
DOMEX	100,000	115,000	~	25	250	High strength and good bendability, trouble free welding.
HARDOX 400	145,000	181,000 - 211,000	~	40 - 46	370 - 430	Wear resistant, high toughness, good bendability and weldability.
HARDOX 450	175,000	208,000 - 233,000	~	45 - 50	425 - 475	Bendable and weldable abrasion resistant plate which is used in applications that demand higher wear resistance.

Yield Strength : **maximum stress** that can be applied **without permanent deformation** of the material.

Tensile Strength : **maximum stretching force** that a material can withstand **before breaking**.

Rockwell Hardness: scale used to determine the hardness of the material. The higher the number the harder the material. (Measures the **depth of impression** as a load is applied using a steel **diamond shaped point** pressed into the material)

Brinell Hardness: scale used to determine the hardness of the material. The higher the number the harder the material. (Measures the **diameter of impression** as a load is applied using a steel **ball point** pressed into the material)