Hardness conversion of thin Hardox® wear sheet

General Product Description

Thin Hardox® wear sheet offers an effective wear solution even below 0.098" thickness.

Hardox® wear sheet is an abrasion-resistant steel with a nominal hardness range between 400 - 500 HBW. This document serves as a formal supplement to existing datasheets, it is recommended to review this document alongside the original product datasheet.

Brinell hardness testing is less suitable for very thin gauges. Hence, the tensile strength is measured and guaranteed. The corresponding hardness is calculated by material specific conversion based on a thickness range where both Brinell Hardness and tensile strength are consistent measurement methods.

Mechanical Properties

Product	Thickness (in)	Typical hardness (HBW), not guaranteed	Tensile strength R_m (ksi)	Typical yield strength (ksi), not guaranteed
Hardox® 400 sheet	0.079 - 0.098	370 - 430	172 - 201	159
Hardox® 450 CR sheet	0.031 - 0.83	425 - 475	201 - 226	181
Hardox® 450 sheet	0.079 - 0.098	425 - 475	201 - 226	181
Hardox® HiAce sheet	0.079 - 0.098	425 - 475	201 - 227	—
Hardox® 500 sheet	0.079 - 0.098	470 - 530	226 - 252	—
Hardox® 500 Tuf sheet	0.079 - 0.098	475 - 505	223 - 239	198

Contact Information

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