

# HAYNES<sup>®</sup> HR-224<sup>®</sup> alloy

## Tensile Properties

### HAYNES<sup>®</sup> HR-224<sup>®</sup> Tensile Properties - Sheet

Test Temperature		Yield Strength 0.2% Offset		Ultimate Tensile Strength		Elongation
°F	°C	ksi	MPa	ksi	MPa	%
RT	RT	47.6	328	106.1	732	47
1000	538	42.7	295	95.3	657	57
1200	649	56.2	387	84.3	581	16
1400	760	57.9	399	68.5	472	14
1600	871	14.3	99	18.3	126	102
1800	982	6.9	48	9.2	64	105

### HAYNES<sup>®</sup> HR-224<sup>®</sup> Tensile Properties - Plate

Test Temperature		Yield Strength 0.2% Offset		Ultimate Tensile Strength		Elongation
°F	°C	ksi	MPa	ksi	MPa	%
RT	RT	45.9	316	105.6	728	49
1000	538	42.2	291	93.6	645	57
1200	649	55.2	381	78.6	542	14
1400	760	59.5	410	69.6	480	9
1600	871	15.6	108	21.7	150	105
1800	982	5.8	40	9.5	66	125

### HAYNES<sup>®</sup> HR-224<sup>®</sup> Tensile Properties - Bar

Test Temperature		Yield Strength 0.2% Offset		Ultimate Tensile Strength		Elongation	Reduction of Area
°F	°C	ksi	MPa	ksi	MPa	%	%
RT	RT	45.8	316	106.5	734	48	72
1000	538	43.0	296	93.4	644	53	61
1200	649	54.8	378	74.5	514	13	22
1400	760	57.5	396	69.6	480	11	12
1600	871	12.9	89	19.5	135	106	93
1800	982	6.3	43	9.8	67	101	95

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