WORTHINGTON INDUSTRIES

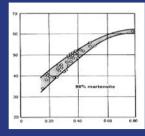
Learn how our Material Support & Solutions team solved this customer material issue:

HEAT TREATING



THE PROBLEM:

The customer was experiencing a heat treating problem causing parts to consistently not meet hardness requirements on special alloys.



THE ANALYSIS:

When parts fail to meet hardness requirement post heat-treatment, it can lead to rejected parts, loss of scrap and increased manufacturing costs.

dRol18620,.				1.15		
aluted Jominy End-Quench Hardenability						
niny Distance	1	2	3	4	5	F
0H Hand ne ss rite ria (Rc)	41-48	37-47	32-44	27-41	23-37	21
leat 556256	44	42	38	30	24	1
leat 556257	44	42	37	28	23	
leat 557309	44	42	38	30	24	
leat 449735	43	40	35	26	22	18
leat 554774	45	44	40	31	28	
leat 554209	44	43	39	31	25	1
eat 553053	44	42	38	30	24	:
leat 552078	44	43	39	31	25	

THE SOLUTION:

By reviewing the properties/grade and the heat treatment process, our metallurgists were able to advise on improvements, as well as offer an alternate grade that would be beneficial for the post heat treatment consistency.

THE ACTION:

If your material isn't meeting required hardness levels or you notice part warping/heat treatment issues, contact the Material Support & Solutions team at Worthington.

CALL US AT 1-800-944-2255

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