

Cancels and replaces Table Z G 6141

TEMPERATURE RANGE	MATERIAL		K_{Jc} (MPa \sqrt{m})	J_{Ic} (kJ/m ²)	$\frac{dJ}{da}$ (MPa)
$T \geq 200^\circ\text{C}$	Base metal, function of sulfur content (%)	$S \leq 0.005$	200	190	180
		$0.005 < S \leq 0.008$	170	135	120
$0.008 < S \leq 0.011$		155	110	85	
$0.011 < S \leq 0.015$		135	85	55	
	Welded joints		170	135	120
$T \leq 50^\circ\text{C}$	Base metal, function of sulfur content (%)	$S \leq 0.005$	245	265	270
		$0.005 < S \leq 0.008$	205	190	<u>180</u>
		$0.008 < S \leq 0.011$	190	160	<u>128</u>
		$0.011 < S \leq 0.015$	175	135	<u>83</u>
	Welded joints		205	190	<u>180</u>

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Values of K_{Jc} and J_{Ic} for materials covered under M 2110 and M 2120 and related welded joints. Toughness values for intermediate temperatures between 50°C and 200°C may be determined by linear interpolation.

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P (ppm)	Base metal ΔRT_{NDT} ageing (°C)						HAZ ΔRT_{NDT} ageing (°C)					
	300°C		325°C		350°C		300°C		325°C		350°C	
	40 years	60 years	40 years	60 years	40 years	60 years	40 years	60 years	40 years	60 years	40 years	60 years
40	2	2	4	5	8	9	0	0	0	0	10	13
60	3	3	6	7	12	14	0	0	3	7	<u>22</u>	<u>27</u>
80	4	4	8	10	16	18	0	0	9	15	33	40

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Reference transition temperature shifts for toughness:
 ΔRT_{NDT} ageing due to thermal ageing.