

ALLOY APPLICATION GUIDE

HIGH CONSISTENCY AND HIGH SPEED REFINING

SECONDARY FAILURE MODE						
	Bar Breakage	Corrosion	Serration	Cavitation	Edge Rounding	
PRIMARY FAILURE MODE	EDGE ROUNDING					
	1	C371	D282	JL55	D282	JL65
	2	C151	JL57	XL1A	JL57	JL60
	3	C351	C371	C351	C371	JL55
	CAVITATION					
	1	XLHS	D282	C371	D282	D282
	2	C151	C371	D282	JL57	JL57
	3	C371	JL57	C351	C371	C371
	SERRATION					
	1	C151	C371	JL55	C371	JL55
	2	C371	D282	C351	D282	XL1A
	3	C351	C151	XL1A	C151	C351
	CORROSION					
	1	XLHS	D282	C371	D282	D282
	2	C151	C371	D282	C371	JL57
	3	C371	JL57	C151	JL57	C371
	BAR BREAKAGE					
	1	XLHS	XLHS	C151	XLHS	C371
	2	C151	C151	C371	C151	C151
	3	C371	C371	C351	C371	C351

Typical failure modes encountered: edge rounding, cavitation, serration, corrosion, bar breakage.

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SECONDARY FAILURE MODE						
	Bar Wear/Serration	Bar Edge Rounding	Corrosion	Bar Breakage	Bar Smearing	
PRIMARY FAILURE MODE	BAR BREAKAGE					
	1	C90	C90	XL12	XL12	C90
	2	XL12	XL12	C40	C40	XL12
	3	C40	C40	C90	C90	C40
	CORROSION					
	1	C90	C90	XL12	XL12	C90
	2	XL12	XL12	C40	C40	XL12
	3	C45	C40	C90	C90	C40
	BAR EDGE ROUNDING					
	1	C90	JL65	C90	C90	C90
	2	JL55	JL55	XL12	XL12	JL55
	3	C45	JL50	C40	C40	C45
	BAR WEAR/SERRATION					
	1	C90	C90	C90	C90	C90
	2	JL55	JL55	XL12	XL12	JL55
	3	C45	C45	C45	C40	C45
	BAR SMEARING					
	1	C90	C90	C90	C90	C90
	2	JL55	JL55	XL12	XL12	C45
	3	C45	C45	C40	C40	JL55

Typical failure modes encountered: bar breakage, corrosion, bar edge rounding, bar wear/serration, bar smearing