

Gruebb 160 and 4000

High performance stainless steel tube drawing lubricants

Technical Data Sheet

Application

Gruebb 160 and 4000 are high performance lubricants for cold reduction of white metal tubes, especially seamless stainless steel tubes made of 304L and 316L.

Properties

Both Gruebb 160 and 4000 contain high levels of chlorinated paraffins and other extreme-pressure additives. These ensure long tool/die life and good component surface finish at low cost. They are usually removed with solvent cleaners. Alternatives to Houghton CR51H and CR40.

PROPERTIES	TEST METHOD	UNITS	160	4000
Product code		-	138289	138290
Appearance	Visual	-	Amber / brown liquid	Amber / brown liquid
Density at 20°C	ASTM D1298	g/ml	1.29	1.25
Viscosity at 40°C	ASTM D445	cSt	160	4000
Flash point COC	ASTM D92	°C	>200	>200

All values are typical.



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