

TIMCAL TIMREX® KS150-600SP Primary Synthetic Graphite

Category : Carbon , Graphite , Other Engineering Material , Additive/Filler for Polymer

Material Notes:

TIMREX Primary Synthetic Graphite is produced in a unique highly controlled graphitization process which assures narrow specifications and unequalled consistent quality due to: monitoring of all production and processing stages, strict final inspection, and clearly defined development processes. TIMREX Primary Synthetic Graphite shows unique properties thanks to the combination of a consistent purity, perfect crystalline structure and well defined texture. Applications: Copper friction parts copper clutch facings Information provided by TIMCAL

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMCAL-TIMREX-KS150-600SP-Primary-Synthetic-Graphite.php

Physical Properties	Metric	English	Comments
Bulk Density	0.670 g/cc	0.0242 lb/in ³	Scott
	0.770 g/cc	0.0278 lb/in ³	Tap
Particle Size	>= 250 µm	>= 250 µm	d50, 83%, Vibrated sieving
	>= 500 µm	>= 500 µm	d90, 22%, Vibrated sieving
	550 µm	550 µm	at a density of 2.16 g/cc
	1000 µm	1000 µm	at a density of 2.12 g/cc
Deformation	1.4 %	1.4 %	plastic
	1.4 %	1.4 %	elastic
	2.8 %	2.8 %	plastic + elastic
Ash	0.060 %	0.060 %	Typical

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.59	0.59	Friction coefficient of sintered Cu-C - brake pads with 10% TIMREX® KS Graphite as a function of the particle size, Sinterdensity: 55% of the theoret. density
	@Temperature 850 °C, Time 10800 sec	@Temperature 1560 °F, Time 3.00 hour	
Abrasion	0.25	0.25	Friction coefficient and wear of sintered Cu-C -brake pads with 10% T 150-600 Graphite, Sinterdensity: 55% of the theoret. density
	@Temperature 850 °C, Time 10800 sec	@Temperature 1560 °F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	140 W/m-K	972 BTU-in/hr-ft ² -°F	

Processing Properties	Metric	English	Comments
Moisture Content	0.040 %	0.040 %	Typical

Descriptive Properties	Value	Comments
Crystallite height Lc	>100 nm	
DBP absorption	17 g/100g	(Dibutylphthalate)

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