

Univar Solutions Batch#: 0834 L02674
 Material#: 16140758
 Initial AC Date: 7-15-21

MFG Date: 7-1-21
 Exp Date: 7-15-22

7/15/21



2780 Waterfront Pkwy E., Indianapolis IN 46214
 Phone: 317-328-5660 Fax: 317-328-2359 www.calumetspecialty.com

Certificate of Analysis

PO Number: 4524842049	Order Number: 839415
Product: CALUMET 420-460	Shipping Date: Jul 12, 2021
Cust. Mat. No: 16055819	Date of Mfg: Jul 1, 2021
Product Code: 300345100000	Qty: 44,980 LB
Lot Number: 2107010052	Container ID: 8350
Carrier: 0010008854-MARTIN TRANSPORT, INC.	Truck ID: 5005

Billing:	Shipping To:	Shipping From:
UNIVAR SOLUTIONS USA PO BOX 34325 SEATTLE WA 98124-1325	UNIVAR USA INC. 2600 Garfield Ave Commerce CA 90040-2608	Calumet Refining, LLC 1756 Old Highway 7 Cotton Valley LA 71018-2989

Test Description	Units	Method	Min.	Max.	Results
API GRAVITY @ 60°F		D4052	43.0	48.0	45.0
SPECIFIC GRAVITY @ 60/60°F		D1250	0.7883	0.8109	0.8017
POUNDS PER GALLON @ 60°F	lb/gal	D1250			6.684
COLOR, SAYBOLT		D156	28		30
FLASH POINT, PMCC (°F)	°F	D93			201
DISTILLATION, IBP (°F)	°F	D86	422		431
DISTILLATION, 5% (°F)	°F	D86			437
DISTILLATION, 10% (°F)	°F	D86			438
DISTILLATION, 20% (°F)	°F	D86			439
DISTILLATION, 30% (°F)	°F	D86			441
DISTILLATION, 40% (°F)	°F	D86			443
DISTILLATION, 50% (°F)	°F	D86			445
DISTILLATION, 60% (°F)	°F	D86			447
DISTILLATION, 70% (°F)	°F	D86			450
DISTILLATION, 80% (°F)	°F	D86			455
DISTILLATION, 90% (°F)	°F	D86			462

Analysis Certified By: Daniel Holder Laboratory Manager Daniel Holder
 Printed Name Title Lab Signature/Loader

All sales of Products by Calumet Specialty Products Partners, L.P. and its subsidiaries and affiliates are subject to the applicable terms and conditions of sale at <http://www.calumetspecialty.com/customer-service/terms-of-sale>, which are incorporated herein by reference.



2780 Waterfront Pkwy E., Indianapolis IN 46214

Phone: 317-328-5660 Fax: 317-328-2359 www.calumetspecialty.com

Certificate of Analysis

PO Number: 4524842049
 Product: CALUMET 420-460
 Cust. Mat. No: 16055819
 Product Code: 300345100000
 Lot Number: 2107010052
 Carrier: 0010008854-MARTIN TRANSPORT, INC.

Order Number: 839415
 Shipping Date: Jul 12, 2021
 Date of Mfg: Jul 1, 2021
 Qty: 44,980 LB
 Container ID: 8350
 Truck ID: 5005

Billing:
 UNIVAR SOLUTIONS USA
 PO BOX 34325
 SEATTLE WA 98124-1325

Shipping To:
 UNIVAR USA INC.
 2600 Garfield Ave
 Commerce CA 90040-2608

Shipping From:
 Calumet Refining, LLC
 1756 Old Highway 7
 Cotton Valley LA 71018-2989

Test Description	Units	Method	Min.	Max.	Results
DISTILLATION, 95% (*F)	*F	D86			469
DISTILLATION, DP (*F)	*F	D86		475	475
WATER CONTENT (ppm)	ppm	D1533		500	60
MEETS CARB REQUIREMENTS					YES
VAPOR PRESSURE	mmHg20C	CARB-ARB310			0.1

Analysis Certified By: Daniel Holder
 Printed Name

Laboratory Manager
 Title

Daniel Holder
 Lab Signature/Loader

All sales of Products by Calumet Specialty Products Partners, L.P. and its subsidiaries and affiliates are subject to the applicable terms and conditions of sale at <http://www.calumetspecialty.com/customer-service/terms-of-sale>, which are incorporated herein by reference.