



Certificate of Analysis

HALMA INDIA PRIVATE LIMITED
B-149 ANSAL PIONEER INDUSTRIAL AREA
122413 GURGAON-JHAJJAR DISTRICT
INDIA

3M Company
3M Center
ST. PAUL MN 55144
USA

Date certificate is prepared: 22-JUN-2022

The 3M product listed below was produced in accordance with standard manufacturing processes for the product in effect at the time of manufacture and is certified to meet the specifications displayed below.

3M Delivery Number 8068399765	Customer PO Number PO-01033	Customer part No
3M Stock Number 7100024956	GTIN Number 50051135716453	3M's Legacy 11 -digit Stock Number 98021232172

Product Description :

3M™ Novec™ 1230 Fire Protection Fluid, 300 kg (661 lb), 1 Drum

Additional Product Information :

For information on product shelf life, handling, transfer and storage of this product please refer to the 3M Technical Service Bulletin for 3M (TM) Novec (TM) Fire Protection Fluid. Novec 1230 fluid is UL and FM component recognized.

Batch Identifier: 8963872 Date of Manufacture: 15-JUN-2022 Expiry Date: 14-JUN-2027

Final Manufacturing Location: 1012 3M Cordova

Test Property	Min. Spec	Max. Spec	Unit	Result/Average	Inspection Method
Appearance				Pass	22.74.C
Residue		300	ppm	< 1	1.13.5.4.C
Dodecafluoro-2-Methylpentan-3-One: %mole	99,0			99,9	135.387
Cis + trans kinetic dimers of HFP		1000	ppm	94	135.387
Thermo dimer of HFP + HF adduct		95	ppm	5	135.387
Water		0,001	%(m)	0,001	4.28
Hydrochloric Acid Equivalent		2,2	ppm	0,9	6.129

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Please contact your 3M Customer Service Representative if you have any questions.

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