



A Linde company

CERTIFICATE OF ANALYSIS

ISO 9001:2015 CERTIFIED
ISO 17034:2016 ACCREDITED
ISO/IEC 17025:2017 ACCREDITED

1202 E Sam Houston Parkway S,
Pasadena, TX 77503
Phone:(800) 548 2268 Fax:(713) 928 9961

PO Number: 4503334077

Manufactured For:

MSA Safety Sales, LLC
1000 Cranberry Woods Drive
Cranberry Township PA 16066
United States Of America

Work Order No: 39131800

Certification Date: 09-May-2023

Customer Part No: 10045035

Cylinder Size: 58DALS

Cylinder Type: ISO 7866

Cylinder Content: 58 L (2 CU.FT.) @ 70 F (21 C) & 500 PSIG (3445Kpag)

Cylinder Lot No: 281114; 134 of 475 cylinders

Cylinder Serial Nos: BC554588,BC555150,BC555156,BC555180,BC555182,BC555183,BC555184,BC555186,BC555187,BC555192,BC555195,BC555208,BC555213,BC555216,BC555217,BC555220,BC555228,BC555229,BC555237,BC555238,BC555244,BC555250,BC555251,BC555254,BC555255,BC555256,BC555262,BC555267,BC555272,BC555273,BC555274,BC555286,BC555287,BC555289,BC555290,BC555298,BC555300,BC555306,BC555317,BC555318,BC555349,BC555356,BC555357,BC555360,BC555361,BC555364,BC555365,BC555368,BC555758,BC555764,BC555782,BC555791,BC555799,BC555801,BC555802,BC555808,BC555818,BC555824,BC555832,BC555847,BC555852,BC555855,BC555859,BC555923,BC555924,BC555925,BC555926,BC555933,BC555942,BC556360,BC556362,BC556363,BC556368,BC556371,BC556423,BC556425,BC556428,BC556430,BC556432,BC556435,BC556437,BC556440,BC556441,BC556448,BC556449,BC556459,BC556461,BC556469,BC556471,BC556511,BC556517,BC556522,BC556523,BC556524,BC556525,BC556527,BC556529,BC556534,BC556540,BC556541,BC556616,BC556618,BC556619,BC556621,BC556626,BC556634,BC556649,BC556654,BC556656,BC556664,BC556674,BC556677,BC556681,BC556684,BC556687,BC556690,BC556693,BC556698,BC556700,BC556705,BC556707,BC556708,BC556709,BC556713,BC556716,BC556722,BC556723,BC556728,BC556729,BC556730,BC556735,BC556740,BC556741,BC570510

Expiration Date: May 2025

Component	Nominal	Accuracy	Analytical Method
HYDROGEN SULFIDE	20 PPM (vol)	+/- 10%	Automated Electrochemical Sensor 2.0
CARBON MONOXIDE	60 PPM (vol)	+/- 5%	Horiba CO Analyzer VIA-510_97KP6EHE
PENTANE EQUIVALENT 58% LEL	(METHANE 1.45% vol)	+/- 5%	Mocon 9000 THC_0317DN0931
OXYGEN	15%(vol)	+/- 5%	Teledyne 3000M Series Percent Oxygen Analyzer
NITROGEN	BALANCE		

The mixture was manufactured or transfilled from a standard which has been gravimetrically blended with traceability through NIST to the International System of Units (SI) balance. Balances are calibrated by a certified third party with certified NIST weights and NIST test numbers. **Report Number: BU70910-051123.** The uncertainty is expressed as an expanded uncertainty $U=kuc$ with uc determined by experiment and a coverage factor $k=2$. The certified value $\pm U$ is presented with a level of confidence of approximately 95%.

PortaGasTM

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Quality Assurance Manager