

# MOTT GAS PURIFIERS (MGP) CLASSIFICATION GUIDE



## IG CLASS - INERT GASES

Gases Purified: N<sub>2</sub>, Ar, He, Kr, Ne, Xe

Fill Class	Impurities Removed	Dangerous Goods / #	Factory Regen	Outlet Purity
IG-101	H <sub>2</sub> O	No	Yes	<100 PPT
IG-103	H <sub>2</sub> O, CO <sub>2</sub> , NMHC, Acids, Bases, Refractory Compounds	No	Yes	<100 PPT
IG-105	H <sub>2</sub> O, H <sub>2</sub> , O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC	Yes / UN2881	Yes	<100 PPT
IG-106	H <sub>2</sub> O, H <sub>2</sub> , O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC, Acids, Bases, Refractory Compounds	Yes / UN2881	Yes	<100 PPT
IG-108	H <sub>2</sub> O, H <sub>2</sub> , O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC, Sulfur Compounds	Yes / UN2881	Yes	<100 PPT
IG-115	NMHC, Refractory Compounds, DMF	No	Yes	<100 PPT

## RG CLASS - HYDROGEN (REACTIVE) GASES

Gases Purified: H<sub>2</sub>, D<sub>2</sub>, H<sub>2</sub> Inert Mixtures

Fill Class	Impurities Removed	Dangerous Goods / #	Factory Regen	Outlet Purity
RG-201	H <sub>2</sub> O	No	Yes	<100 PPT
RG-203	H <sub>2</sub> O, CO <sub>2</sub> , NMHC, Acids, Bases, Refractory Compounds	No	Yes	<100 PPT
RG-205	H <sub>2</sub> O, O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC	Yes / UN2881	Yes	<100 PPT
RG-206	H <sub>2</sub> O, O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC, Acids, Bases, Refractory Compounds	Yes / UN2881	Yes	<100 PPT
RG-215	NMHC, Refractory Compounds, DMF	No	Yes	<100 PPT

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## AG CLASS - ACID / CORROSIVE GASES

Gases Purified:  $\text{Cl}_2$ , HCl, HBr,  $\text{BCl}_3$

Fill Class	Impurities Removed	Dangerous Goods / #	Factory Regen	Outlet Purity
AG-301	$\text{H}_2\text{O}$	No	No	<1 PPB
AG-302 (HCl & $\text{Cl}_2$ )	$\text{H}_2\text{O}$ & Metals	No	No	<1 PPB
AG-303 (HBr)	$\text{H}_2\text{O}$	No	No	<1 PPB

## HG CLASS - HYDRIDE GASES

Gases Purified:  $\text{AsH}_3$ ,  $\text{B}_2\text{H}_6$ ,  $\text{CH}_4$ , D.C.S. ( $\text{SiH}_2\text{Cl}_2$ ),  
 $\text{Ge}_2\text{H}_6$ ,  $\text{GeH}_4$ ,  $\text{H}_2\text{Se}$ ,  $\text{NH}_3$ ,  $\text{PH}_3$ ,  $\text{SF}_6$ ,  
 $\text{SiH}_2$ ,  $\text{SiH}_4$ ,  $\text{Si}_2\text{H}_6$ , DMHZ, Hydride/Carrier Gas Mix

Fill Class	Impurities Removed	Dangerous Goods / #	Factory Regen	Outlet Purity
HG-501	$\text{H}_2\text{O}$ , $\text{O}_2$ , $\text{CO}_2$	Yes / UN3189	No	<1 PPB
HG-502 ( $\text{NH}_3$ )	$\text{H}_2\text{O}$ , $\text{O}_2$ , $\text{CO}_2$ , NMHC	Yes / UN2881	Yes	<1 PPB
HG-508	$\text{H}_2\text{O}$	No	No	<1 PPB

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## OG CLASS - OXYGEN / CDA GASES

Gases Purified: O<sub>2</sub>, Clean Dry Air

Fill Class	Impurities Removed	Dangerous Goods / #	Factory Regen	Outlet Purity
OG-601	H <sub>2</sub> O	No	Yes	<100 PPT
OG-602	H <sub>2</sub> O, CO <sub>2</sub> , NMHC, Acids, Bases, Refractory Compounds	No	Yes	<100 PPT
OG-605	Acids, Bases, Refractory Compounds	No	No	<1 PPB
OG-606	H <sub>2</sub> O, CO <sub>2</sub> , NMHC	No	Yes	<100 PPT
OG-615	NMHC, Refractory Compounds, DMF	No	Yes	<100 PPT

## CO2 CLASS - CARBON DIOXIDE GAS

Gas Purified: CO<sub>2</sub>

Fill Class	Impurities Removed	Dangerous Goods / #	Factory Regen	Outlet Purity
CO2-701	H <sub>2</sub> O	No	Yes	<100 PPT
CO2-703	H <sub>2</sub> O, O <sub>2</sub> , CO, H <sub>2</sub> , NMHC, Acids, Bases, Refractory Compounds	Yes / UN2881	Yes	<100 PPT
CO2-715	NMHC, Refractory Compounds, DMF	No	Yes	<100 PPT

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## CO CLASS - CARBON MONOXIDE GAS

Gases Purified: CO

Fill Class	Impurities Removed	Dangerous Goods / #	Factory Regen	Outlet Purity
CO-801	H <sub>2</sub> O, O <sub>2</sub> , CO <sub>2</sub>	No	No	<1 PPB

## FG CLASS - FLUOROCARBON GASES

Gas Purified: CxFy

Fill Class	Impurities Removed	Dangerous Goods / #	Factory Regen	Outlet Purity
FG-903	H <sub>2</sub> O	No	No	<100 PPT
FG-908	H <sub>2</sub> O, H <sub>2</sub> , O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC, Sulfur Compounds	Yes / UN2881	No	<100 PPT

## HCG CLASS - HYDROCARBON GASES

Gas Purified: CH<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>4</sub>H<sub>10</sub>, C<sub>5</sub>H<sub>12</sub>, C<sub>6</sub>H<sub>14</sub>, C<sub>7</sub>H<sub>16</sub>

Fill Class	Impurities Removed	Dangerous Goods / #	Factory Regen	Outlet Purity
HCG-1106	H <sub>2</sub> O	No	No	<100 PPT
HCG-1108	H <sub>2</sub> O, H <sub>2</sub> , O <sub>2</sub> , CO, CO <sub>2</sub> , NMHC, Sulfur Compounds	Yes / UN2881	No	<100 PPT
HCG-1115	NMHC, Refractory Compounds, DMF	No	No	<100 PPT