

# **RULES FOR HANDLING COMPRESSED GASES SAFELY**

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## IDENTIFY CYLINDER & CHEMICAL CONTENTS

READ SHOULDER LABEL AND ALL TAGS TO IDENTIFY CHEMICAL  
REVIEW MSDS AND OTHER GAS DATA SHEETS  
DO NOT USE UNKNOWN GASES  
DETERMINE MAXIMUM POSSIBLE PRESSURE FROM TANK MARKINGS

## USE GOOD ENGINEERING PRACTICES

SECURE CYLINDER FIRMLY  
LEAVE VALVE PROTECTION CAP IN PLACE UNTIL READY TO USE CYLINDER  
USE DESIGNATED REGULATOR AND SUPPORT EQUIPMENT  
USE MATERIALS WHICH ARE COMPATIBLE WITH THE GAS  
DO NOT USE OIL OR GREASE ON ANY GAS HANDLING FITTINGS OR EQUIPMENT  
DETERMINE IF THERE ARE SPECIAL REQUIREMENTS WITH REGARD TO TEMPERATURE,  
PRESSURE, MOISTURE, OR AIR SENSITIVITY AND ENGINEER THE SYSTEM TO  
CONTROL THESE REQUIREMENTS  
PLACE EXPLOSION BARRIERS AROUND ALL GLASS OR PLASTIC GAS HANDLING EQUIPMENT  
USE CORRECT CGA FITTINGS  
DO NOT USE ADAPTERS  
PROVIDE ELECTRICAL GROUNDING FOR ALL FLAMMABLE GAS SYSTEMS  
POSITION SYSTEMS SO AS NOT TO BLOCK ROUTES OF ESCAPE  
USE FIXED POINT AND PORTABLE MONITORS AS NEEDED

## FOLLOW PROPER GAS HANDLING PRACTICES

FLUSH CORROSIVE GAS SYSTEMS WITH INERT GAS WHEN NOT IN USE  
PASSIVATE REACTIVE OR CORROSIVE GAS SYSTEMS  
DEVELOP WRITTEN STANDARD PROCEDURES FOR OPERATING SYSTEM  
ESTABLISH WRITTEN EMERGENCY RESPONSE PROCEDURES  
PROVIDE SOURCE OF BREATHING AIR FOR HANDLING TOXIC GASES  
LEAK TEST ALL TOXIC GAS CYLINDERS PRIOR TO ACCEPTANCE

## STORAGE

ONLY STORE THE QUANTITY OF GASES YOU WILL NEED FOR ONE WEEK OPERATION  
STORE ALL GASES IN A COOL, SECURE LOCATION  
PROVIDE APPROPRIATE LEAK DETECTION SYSTEMS  
CONTROL CYLINDER INVENTORY  
FOLLOW STANDARD CHEMICAL MANAGEMENT PRACTICES WHEN HANDLING ALL  
COMPRESSED GASES

