



# DUPONT™ SUVA® 407A REFRIGERANT

DuPont™ Suva® 407A (R-407A) is a non-ozone depleting HFC refrigerant that can be used to replace R-404A/R-507 in new refrigeration equipment. DuPont™ Suva® 407A has been used successfully in thousands of refrigeration systems globally.



## APPLICATIONS

DuPont™ Suva® 407A is well suited for commercial, transport and industrial refrigeration applications. Suva® 407A can be used in new system designs for low and medium refrigeration. DuPont™ Suva® 407A can achieve similar performance to R-404A/R-507 in new medium and low-temperature direct expansion refrigeration systems designed to use R-407A.

## INTRODUCTION

R-404A and R-507 were developed as HFC refrigerants to replace R-502 in low and medium temperature applications and have been in use in both new and retrofitted equipment since the 1990's. In some regions, recent proposed global warming legislation is leading some OEMs and end-users to seek reduced carbon footprint refrigerant options versus R-404A/R-507 for their refrigeration systems. DuPont™ Suva® 407A offers improved environmental properties with a global warming potential (GWP) of 2107 versus 3922 for R-404A and 3985 for R-507. DuPont™ Suva® 407A can also be used to replace R-22 in new direct expansion refrigeration equipment or for retrofit of existing R-22 direct expansion refrigeration equipment.



Figure 1. Refrigerant Properties for R407A and R404A

Refrigerant Properties		
	R407A	R404A
Components	32/125/134a	125/134a/143a
Lubricant	POE	POE
ASHRAE Designation	A1 - nontoxic, nonflammable	A1 - nontoxic, nonflammable
Boiling Point @ 1 atm	-45.5C (-50F)	-46.5C (-51.8F)
Critical Temperature	82.3C (181F)	72.0C (163F)
Critical Pressure	45.2bar (659 psia)	37.3bar (548 psia)
GWP (CO2 = 1.0)	2107	3922
Temp Glide	-4C (8F)	-1C (2F)

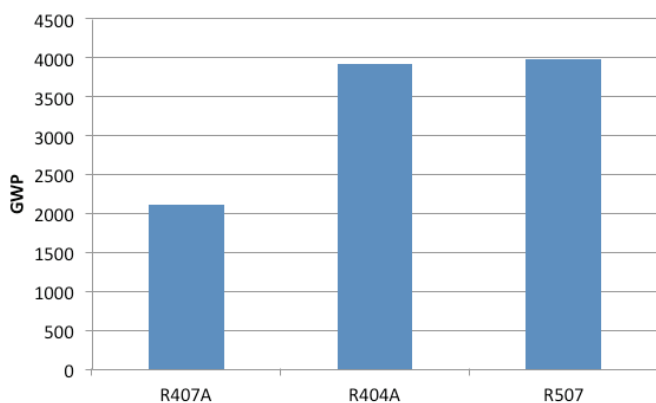
- Similar performance to R404A/R507 in new equipment
- Compatible with commonly used materials of construction

## DUPONT™ SUVA® 407A REFRIGERANT

### NEW SYSTEMS DESIGNED FOR DUPONT™ SUVA® 407A

DuPont™ Suva® 407A offers improved environmental properties with a GWP 46% lower than R-404A. DuPont™ Suva® 407A can achieve similar performance to R-404A/R-507 in new medium and low temperature direct expansion refrigeration systems designed to use R-407A. It is a proven technology choice that has been used in the market for over 20 years. Additionally, R407A can be combined with CO<sub>2</sub> in cascading systems to achieve lower carbon footprint.

Figure 2. Global Warming Potentials for R407A, R404A, and R507.



### TECHNICAL LEADERSHIP

DuPont offers technical consulting and a vast array of product information, technical sheets and literature to assist our customers. Visit [refrigerants.dupont.com](http://refrigerants.dupont.com) for additional information and for the global office listing nearest your location.

### PRODUCT SECURITY

For those markets using DuPont™ Suva® 407A in non-refillable containers, the DuPont Brand Assurance program employs the use of a proprietary DuPont technology, a patented 3D hologram label known as a DuPont™ Izon®. The Izon® label is placed on the refrigerant cylinder, and is one method of identifying genuine DuPont product.

For those markets using DuPont™ Suva® 407A in ISO tanks, DuPont deploys a high security seal to ensure genuine contents.

If you encounter counterfeit product in the marketplace, please report the suspected activity to your local DuPont office, or via [refrigerants.dupont.com/genuine](http://refrigerants.dupont.com/genuine).