

INTERPRETATION: IIAR SC 2016-4

SUBJECT: Ammonia Purity Table

DATE ISSUED: March 10, 2017

QUESTION:

The purity table published in IIAR 2-2014, section 5.2.2, appears to be overly restrictive and not representative of the refrigerant grade ammonia offered by manufacturers.

ANSWER:

The table shown was taken from a now-rescinded federal specification. The ammonia specification section of IIAR 2-2014 has been revised by this interpretation as follows:

5.2.1 Purity. Anhydrous ammonia used for the initial and subsequent charging of ammonia refrigeration systems using mechanical compression shall meet the purity requirements shown in Table 5.2.2.

5.2.2 Purity Requirements. Ammonia refrigerant shall comply with Table 5.2.2.

Table 5.2.2
Purity Requirements

Ammonia Content	99.95% minimum
Water	75 ppm minimum, 2000 ppm maximum
Oil	50 ppm maximum
Salt (calculated as NaCl)	None
Pyridine, Hydrogen Sulfide, Naphthalene	None

COMMITTEE ACTION: Sections 5.2.1 and 5.2.2 will be revised in a future revision of IIAR 2.