

Hose Animal Derived Ingredient (ADI) Status

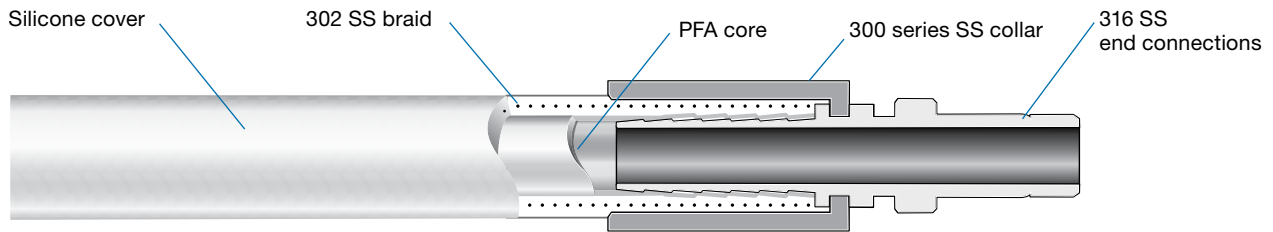


Swagelok® hose has a reduced risk of contact with Animal Derived Ingredients (ADI) based on EMA/410/01 section 3.1. This standard provides guidance on minimizing the risk of transmitting animal spongiform encephalopathy agents via human and veterinary medicinal products.

Components which may have come in contact with ADI are only exposed to coolants used in the machining process and are subsequently cleaned in an aqueous cleaning process in accordance with Swagelok® *Standard Cleaning and Packaging (SC-10)*, MS-06-62, as defined in this document.

U Series PFA Hose

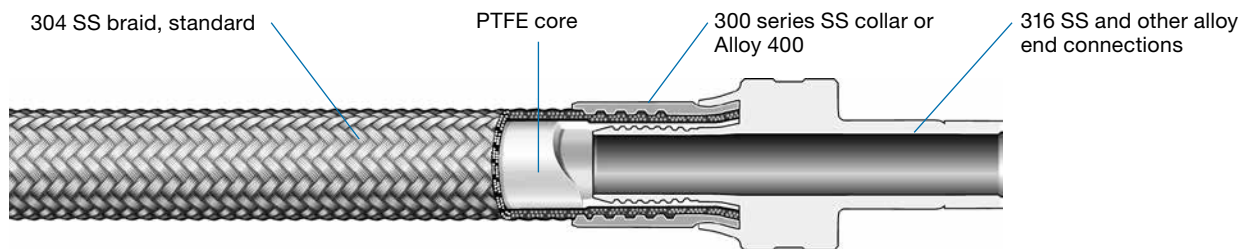
Animal Derived Ingredient (ADI) Overall Status = “ADI Reduced Risk”



U Series Hose Component	Animal Derived Ingredient (ADI) Status
Silicone Cover	ADI Free as required by Swagelok proprietary material specification
302 SS braid	May have come in contact with ADI; encapsulated within silicon cover
PFA Core	ADI Free as required by Swagelok proprietary material specification
300 Series SS Collar	May have come in contact with ADI; cleaned in accordance with Swagelok <i>Standard Cleaning and Packaging (SC-10)</i> , MS-06-62.
316 SS and other alloy end connections	
Optional accessories - see Options section of <i>Hose and Flexible Tubing</i> , MS-01-180	

T Series PTFE Hose

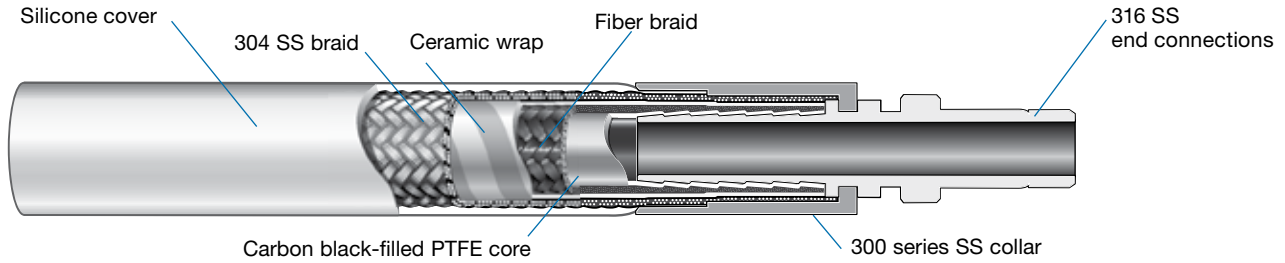
Animal Derived Ingredient (ADI) Overall Status = “ADI Reduced Risk”



T Series Hose Component	Animal Derived Ingredient (ADI) Status
304 SS Braid, standard	May have come in contact with ADI; cleaned in accordance with Swagelok <i>Standard Cleaning and Packaging (SC-10)</i> , MS-06-62.
PTFE Core	
300 Series SS Collar or Alloy 400	
316 SS and other alloy end connections	
Optional accessories - see Options section of <i>Hose and Flexible Tubing</i> , MS-01-180	

W Series PTFE Hose

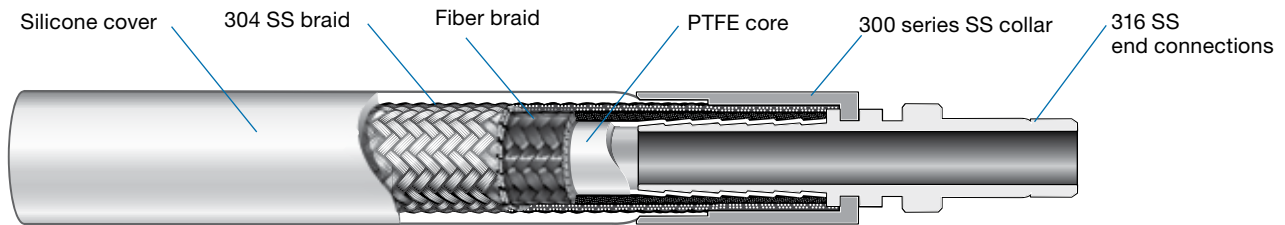
Animal Derived Ingredient (ADI) Overall Status = "ADI Reduced Risk"



W Series Hose Component	Animal Derived Ingredient (ADI) Status
Carbon black-filled PTFE Core	ADI Free as required by Swagelok proprietary material specification
Silicone Cover	May have come in contact with ADI; cleaned in accordance with Swagelok <i>Standard Cleaning and Packaging (SC-10)</i> , MS-06-62.
304 SS Braid	
Fiber Braid	
Ceramic Wrap	
300 Series SS Collar	
316 SS and other alloy end connections	
Optional accessories - see Options section of <i>Hose and Flexible Tubing</i> , MS-01-180	

S Series PTFE Hose

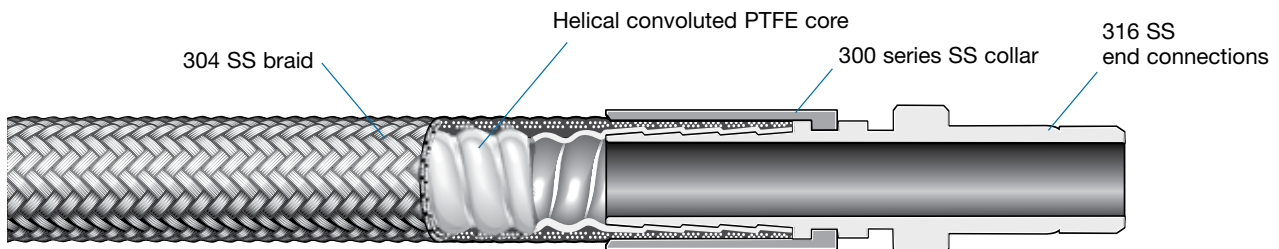
Animal Derived Ingredient (ADI) Overall Status = "ADI Reduced Risk"



S Series Hose Component	Animal Derived Ingredient (ADI) Status
PTFE Core	ADI Free as required by Swagelok proprietary material specification
Silicone Cover	May have come in contact with ADI; cleaned in accordance with Swagelok <i>Standard Cleaning and Packaging (SC-10)</i> , MS-06-62.
304 SS Braid	
Fiber Braid	
300 Series SS Collar	
316 SS and other alloy end connections	
Optional accessories - see Options section of <i>Hose and Flexible Tubing</i> , MS-01-180	

C Series PTFE Hose

Animal Derived Ingredient (ADI) Overall Status = "ADI Reduced Risk"



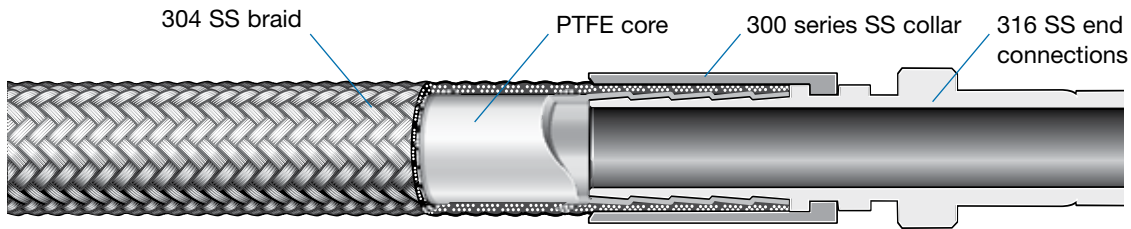
C Series PTFE Hose (continued)

Animal Derived Ingredient (ADI) Overall Status = “ADI Reduced Risk”

C Series Hose Component	Animal Derived Ingredient (ADI) Status
Helical convoluted PTFE core	ADI Free as required by Swagelok proprietary material specification
304 SS Braid	May have come in contact with ADI; cleaned in accordance with Swagelok <i>Standard Cleaning and Packaging (SC-10)</i> , MS-06-62.
300 Series SS Collar	
316 SS and other alloy end connections	
Optional accessories - see Options section of <i>Hose and Flexible Tubing</i> , MS-01-180	

B Series PTFE Hose

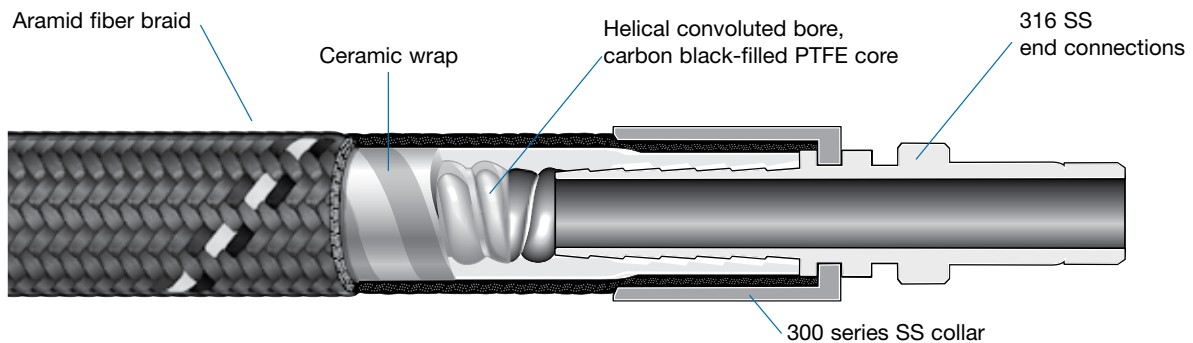
Animal Derived Ingredient (ADI) Overall Status = “ADI Reduced Risk”



B Series Hose Component	Animal Derived Ingredient (ADI) Status
PTFE Core	ADI Free as required by Swagelok proprietary material specification
304 SS Braid	May have come in contact with ADI; cleaned in accordance with Swagelok <i>Standard Cleaning and Packaging (SC-10)</i> , MS-06-62.
300 Series SS Collar	
316 SS and other alloy end connections	
Optional accessories - see Options section of <i>Hose and Flexible Tubing</i> , MS-01-180	

N Series PTFE Hose

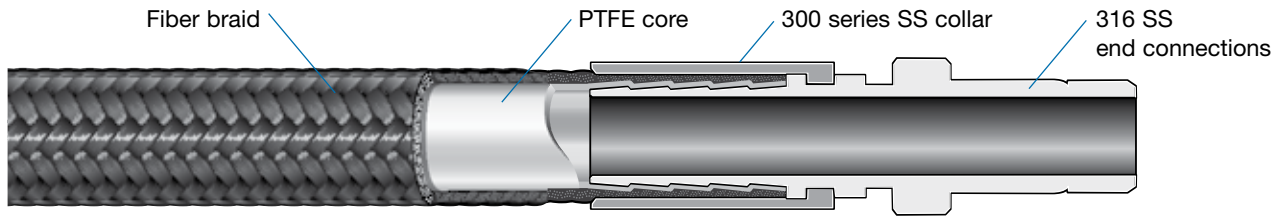
Animal Derived Ingredient (ADI) Overall Status = “ADI Reduced Risk”



N Series Hose Component	Animal Derived Ingredient (ADI) Status
Helical convoluted bore, carbon black-filled PTFE core	ADI Free as required by Swagelok proprietary material specification
Aramid fiber braid	May have come in contact with ADI; cleaned in accordance with Swagelok <i>Standard Cleaning and Packaging (SC-10)</i> , MS-06-62.
Ceramic wrap	
316 SS and other alloy end connections	
300 Series SS Collar	
Optional accessories - see Options section of <i>Hose and Flexible Tubing</i> , MS-01-180	

F Series PTFE Hose

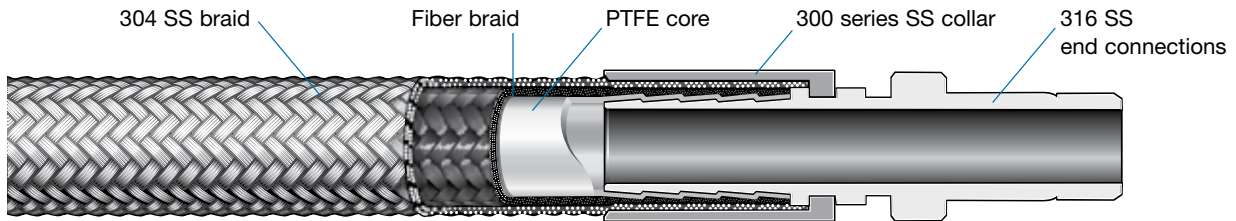
Animal Derived Ingredient (ADI) Overall Status = “ADI Reduced Risk”



F Series Hose Component	Animal Derived Ingredient (ADI) Status
PTFE core	ADI Free as required by Swagelok proprietary material specification
Fiber braid	May have come in contact with ADI; cleaned in accordance with Swagelok <i>Standard Cleaning and Packaging (SC-10)</i> , MS-06-62.
300 Series SS Collar	
316 SS and other alloy end connections	
Optional accessories - see Options section of <i>Hose and Flexible Tubing</i> , MS-01-180	

X Series PTFE Hose

Animal Derived Ingredient (ADI) Overall Status = “ADI Reduced Risk”



X Series Hose Component	Animal Derived Ingredient (ADI) Status
PTFE core	ADI Free as required by Swagelok proprietary material specification
304 SS Braid	May have come in contact with ADI; cleaned in accordance with Swagelok <i>Standard Cleaning and Packaging (SC-10)</i> , MS-06-62.
Fiber braid	
300 Series SS Collar	
316 SS and other alloy end connections	
Optional accessories - see Options section of <i>Hose and Flexible Tubing</i> , MS-01-180	