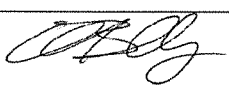



CONTRACTOR SUBMITTAL FORM

Project Name: Navajo Gallup Water Supply Project Reach 26.3	<input checked="" type="checkbox"/> M (Materials) <input type="checkbox"/> T (Testing) <input type="checkbox"/> A (Administrative)	Submittal No.
SMA Project No: 6921307		M018
Date: 07-17-2019		
Contractor: Navajo Engineering and Construction Authority	No. of Copies: 1	

Supplier: Core & Main	Manufacturer: Advance Products & Systems, LLC
Specification No.: None	Drawing No.: DT-5, DT-4
Bid Item No(s): 29, 30, 32	
Submittal Checklist No(s): M221, M222	
Product Description: End Seals for steel casing - 18x10 and 24x12 Petroleum Resistant End Seal for PVC casing - 24x12	
Are there any deviations from the Contract Documents? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Explain:	
Contractor's certification that product meets requirements of Contract Documents: <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Certified with variations as noted on shop drawings and/or attached sheets.	
Signed:  Quentin Benally, NECA	Date: 07-17-2019

Engineer's Comments: <input checked="" type="checkbox"/> No Exception Taken <input type="checkbox"/> Approved as Corrected <input type="checkbox"/> Exceptions as Noted <input type="checkbox"/> Submittal Rejected <input type="checkbox"/> Revise and Resubmit to Engineer <input type="checkbox"/> Contractor to Submit Specified Information	Review is limited to check for compliance with design concept. No changes from provisions of Contract Documents are intended and Contractor remains responsible for compliance with revisions therein. The Contractor is solely responsible for quantities; correctness of dimensions; verification of physical interrelation of elements of the work as required by the drawings and specifications and by field determination; fabrication procedures, construction methods, techniques and sequences. This review does not relieve the Contractor from these responsibilities. Non-conformities and errors detected have been noted but such markings, or lack thereof, shall not relieve the Contractor from compliance with all requirements of the contract drawings and specifications.
Signed: 	Date: 7/22/19



ADVANCE

PRODUCTS & SYSTEMS, LLC

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Email: sales@apsonline.com
www.apsonline.com
ISO 9001 Certified

24X12 END SEALS
18X10 END SEALS

SUBMITTAL

APS MODEL AW (NEOPRENE) CASING END SEAL

Advance Products & Systems, LLC Model AW wrap-around casing end seals are manufactured of 1/8" thick neoprene rubber assuring excellent chemical resistance and resiliency. These end seals can be effectively used in the temperature range of -20 degrees F to 212 degrees F. Also included are 1/2" wide T304 stainless steel bandings with 100% non-magnetic worm gear mechanism.

APS Model AW Casing End Seals are of the highest quality and are manufactured to industry standards.

We hereby certify that the materials supplied were manufactured by Advance Products & Systems, LLC .P.O. BOX 60399, Lafayette, LA 70596-0399, USA, and are found to be in accordance with the requirements of the order.

End Seal Properties

Temperature Limits	-20°F to +212°F
Color	Black
Finish	Smooth
Durometer	60 +/-5
Tensile Strength	1000PSI
Elongation	350%

Mastic Tape Technical Data

<u>Property</u>	<u>Technical Data</u>	<u>Test Method</u>
Color	Black	Visual
Specific Gravity	1.15 - 1.40	ASTM D 71
Hydrocarbon Content	50% Min.	ASTM C 990
Solids Content	99% minimum	ASTM D 6
Cone Penetration @ 25°C (77°F)	55 to 85	ASTM D 217
Low Temperature Flexibility	No cracking or adhesion loss at-23°C (-10°F)	ASTM C 765
Service Temperature Range	-40°F to 250°F	



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**24X12 PETROLEUM RESISTANT
END SEALS**

SUBMITTAL

APS MODEL AW NITRILE CASING END SEAL

Advance Products & Systems, LLC Model AW wrap around casing end seals are manufacture of 1/8" thick Nitrile rubber assuring excellent chemical resistance and resiliency. These end seals can be effectively used in the temperature range of -30 degrees F to 200 degrees F. They are secured with stainless steel banding with 100% non-magnetic worm gear mechanism 1/2" wide.

APS Model AW Casing End Seals are of the highest quality and are manufactured to industry standards.


We hereby certify that the materials supplied were manufactured by Advance Products & Systems, LLC .P.O. BOX 60399, Lafayette, LA 70596-0399, USA, and are found to be in accordance with the requirements of the order.

End Seal Physical Properties

Temperature Limits	-30°F to +200°F
Color	Black
Finish	Smooth
Durometer	60 +/-5
Tensile Strength	700PSI
Elongation	350%

Mastic Tape Technical Data

<u>Property</u>	<u>Technical Data</u>	<u>Test Method</u>
Color	Black	Visual
Specific Gravity	1.15 - 1.40	ASTM D 71
Hydrocarbon Content	50% Min.	ASTM C 990
Solids Content	99% minimum	ASTM D 6
Cone Penetration @ 25°C (77°F)	55 to 85	ASTM D 217
Low Temperature Flexibility	No cracking or adhesion loss at -23°C (-10°F)	ASTM C 765
Service Temperature Range	-40°F to 250°F	



Joseph Wilson
Vice President