



# POLYART-AS<sup>®</sup>

FILAMENT POLYESTER AND CONDUCTIVE MATERIAL

*POLYART AS is an antistatic sewing thread produced from high-tenacity filament Polyester in combination with a conductive material. It is designed for use in areas where electrostatic charge creates problems (server rooms, places where flammable or explosive materials are stored or used, etc) Static electricity is an important source of ignition in the industries where liquefied gases such as propane, butane and hydrogen are used under pressure. While the spark arc created from static electricity has enough energy to ignite the combustible mixture around it, static electricity also has the potential to cause irreversible damage to electronic circuit elements operating with low voltages. By using the antistatic sewing thread on shoe soles, the static electricity of the human body is discharged into the ground.*

## BASIC USES:



*Personel protective workwear clothing and footwear for places where flammable and explosive substances are stored*



*Electronic assembly workwear and footwear*



# The main reasons to prefer POLYART-AS

- It has been specially designed to prevent static build-up in garments and footwear
- It reduces the safety risk for employees caused by sudden electrical arc flash and the risk of fire in the working environment
- It prevents from machine downtime, lost work hours and product damage caused by static electricity in the semiconductor and electronics industry

## Technical Specifications

Ticket no (Nm)	Tex no	Article no	Length (m)	Number of ply	Average strength (cN)	Elongation (min-max) (%)	Recommended needle size (metric)
22	135	AS82	2000	4+1 staple metal blend	6800	16-26	140-160
15	180	A811	1000	3+1 metal filament	10000	24-34	140-160
20	150	A811	1500	3+1 metal filament	9000	23-33	140-160
25	105	A812	2500	3+1 metal filament	6250	22-32	130-140
30	90	A812	2500	3+1 metal filament	5400	18-28	130-140
40	80	A813	3000	3+1 metal filament	4500	20-30	100-110

Needle size recommendations are a guide only and ultimately depend on the sewing application.

## Fastness Features :

Wash fastness	:	ISO 105 C10:2006 C(3)	Grade 3-4
Water fastness	:	ISO 105 E01:2010	Grade 3-4
Rub fastness	:	ISO 105 X12:2001	Grade 3-4

## Thermal Features :

Melting point 260 °C  
Shrinkage less than 1% at 150°C

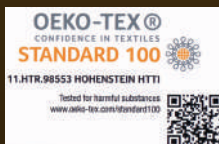
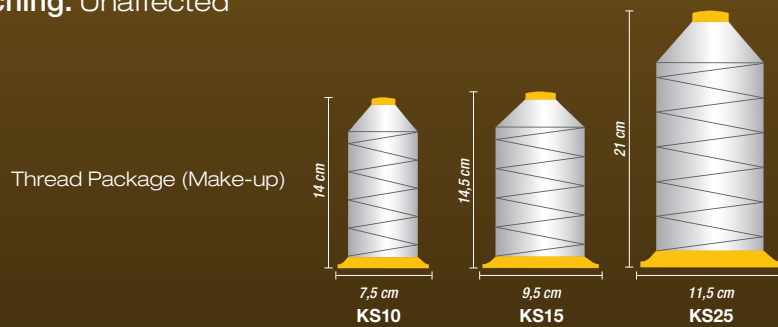
## Chemical Features :

**Acids:** Good resistance to weak acids

**Alkalis:** Unaffected by weak alkalis but less resistant to stronger alkalis

**Organic Solvents:** Generally unaffected

**Bleaching:** Unaffected



As the conditions and applications in the end-use of thread vary considerably, the user should carry out preliminary testing to ensure that the thread is suitable for the intended use. Özen İplik cannot be held responsible for the misuse of any of the above products. All information contained in this sheet should be taken only as indicative. Please ensure that you are using the most recent publication.