

# **Flexalloy<sup>®</sup>**

## **ELASTOMERS FOR EV INFRASTRUCTURE**

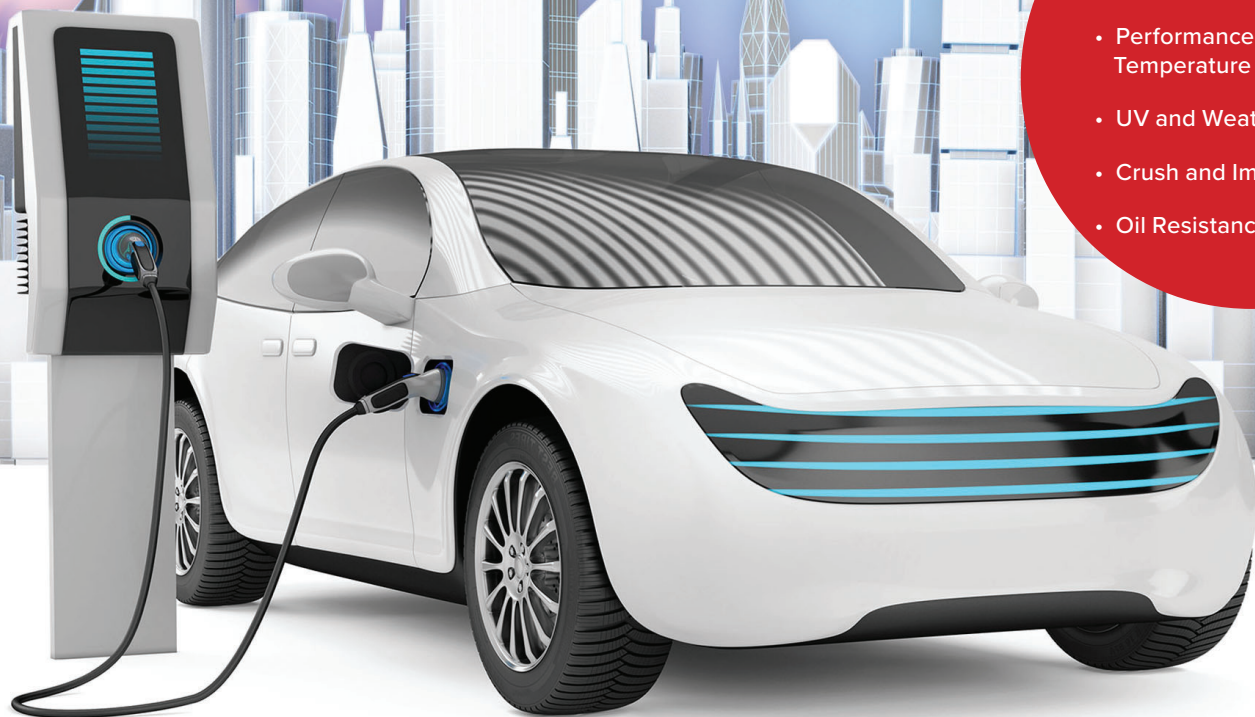
The emerging electric vehicle infrastructure mandates new elastomeric materials that can withstand tough environmental demands.

Teknor Apex provides standard and customized material solutions that offer resilient performance in these extreme conditions and meet the continuously evolving regulatory requirements.

A red circular callout box containing text and a list of benefits.

### **Flexalloy in EV Charging Applications Provides:**

- Performance Over a Wide Temperature Range
- UV and Weather Resistance
- Crush and Impact Resistance
- Oil Resistance



## Flexalloy Insulation Compounds for EVE Cable

Compound Property	Test Method	89504-90	89504-90FR
Temperature Rating, °C	ASTM D794	105	105
Shore Hardness, delayed	ASTM D2240	90 A	90 A
Specific Gravity	ASTM D792	1.24	1.28
Tensile Strength, MPa	ASTM D638	19.5	19.5
Tensile Elongation, %	ASTM D638	340	340
Brittleness Temperature, °C	ASTM D746	-46	-46
Oxygen Index, %	ASTM D2863	27	30
Oil Resistance	UL62	Yes	Yes

## Flexalloy Jacket Compounds for EVE Cable

Compound Property	Test Method	9602-72FR	9612-75LG	9615-80	9630-75A
Temperature Rating, °C	ASTM D794	105	105	105	105
Shore Hardness, delayed	ASTM D2240	72 A	75 A	80 A	74 A
Specific Gravity	ASTM D792	1.28	1.23	1.31	1.30
Tensile Strength, MPa	ASTM D638	13.3	16.9	17.2	16.0
Tensile Elongation, %	ASTM D638	390	340	400	340
Brittleness Temperature, °C	ASTM D746	-48	-60	-53	-48
Oxygen Index, %	ASTM D2863	29	27	30	26
Oil Resistance	UL62	Yes	Yes	Yes	Yes

With a long history in custom compounding, Teknor Apex is adept at developing unique material solutions to meet our customers' needs.

# Flexalloy®

Contact Teknor Apex to begin customizing your solution today.

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