

GMC Roofing & Building Paper Products, INC.

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Material Safety Data Sheet **Type 15 & Type 30 ASTM**

A. Description

This specification covers asphalt-saturated organic felts, with or without perforations.

B. Classification:

1. Asphalt-saturated felts covered by this specification are of two types:
 - a. Type 1-Commonly called Type 15 asphalt felt.
 - b. Type 2-Commonly called Type 30 asphalt felt.

C. Materials and Manufacturing:

1. In the process of manufacturing a single thickness of dry felt shall be saturated with an asphalt saturant.
2. The felt shall be produced principally from organic fibers. The surface of the felt shall be uniform and relatively smooth. Upon splitting or tearing on the bias, the felt shall appear reasonably free of lumps or particles of foreign substances.

D. Physical Requirements:

1. The Material shall conform to the physical requirements prescribed in Table 1 and dimensions and masses prescribed in Table 2.
2. The finished product shall not crack nor be so sticky as to cause tearing or other damage upon being unrolled at temperatures between 10 and 60 degrees C (50 and 140 degrees F.).
3. Perforated felts shall conform to the same requirements as the plain type but shall also have uniformly spaced perforations.

E. Workmanship, Finish and Appearance:

1. The felt shall be thoroughly and uniformly saturated, and shall show no unsaturated spots at any point upon cutting 50 mm (2 in.) wide strips at random across the entire sheet and splitting them open for their full length.
2. The surface of the felt shall not be coated or covered with talc or other substances that could tend to interfere with adhesion between the felt and plying cement or bitumen.

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3. The finished material shall be free of visible external defects, such as holes, ragged or untrue edges, breaks, cracks, tears, protuberances and indentations, except for intentionally provided perforations and the associated protuberances.

F. Inspection:

1. Inspection of the material shall be agreed upon between the purchaser and the supplier as part of the purchase contract.

G. Rejection and Resubmittal:

1. Failure to conform to any of the requirements prescribed in this specification shall constitute grounds for rejection. In case of rejection, the supplier shall have the right to reinspect the lot after removal of those packages not conforming to the requirements.

H. Packaging and Marketing:

1. The rolls shall be securely wrapped or banded in a substantial grade of paper which completely encircles the face of the roll in a manner that will prevent slipping.
2. No roll shall contain more than two pieces, and no more than 3% of the rolls in any lot shall contain two pieces.
3. Unless otherwise specified, each package shall be plainly marked with the manufacture's name, brand name, and type of bitumen if not evident in the label name of product.

Table 1 Physical Requirements of Asphalt-Saturated Roofing Felt

	Type 1	Type 2
Average breaking strength, min.		
Kn/m (1bf/in.) of width:		
With fiber grain	5.25(30)	7.00(40)
Across fiber grain	2.63(15)	3.50(20)
Pliability at 25 degrees C(77D.F.)		
The ten strips tested shall not crack when bent 90 degrees a uniform speed over a rounded corner of:	12.7mm(1/2-in.) radius	19.1-mm(3/4-in.) radius
Loss on heating at 105 degrees C(221 degrees F.) for 5 h. max.%	4	4

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Table 2 Dimensions and Masses of Asphalt-Saturated Felt

	Type 1	Type 2
Width of roll, mm(in.)	914(36)+0.7% or as agreed by purchaser and seller	914(36)+0.7% or as agreed by purchaser and seller
Area of roll min.m 2 (or ft2)	20.07(216) or 40.14(432)	20.07(216)
Moisture max, %	To be determined	
Net mass of saturated felt, min. g/m2 (lb/100 ft2)	9.25	18.5
Mass of saturant, min. g/m2 (lb/100 ft2)B	5.0	10
Mass of desaturated felt, min. g/m2 (lb/100 ft2)	4.25	8.5
Ash, max. %	10.0	10.0
Perforated felt, avg. area of individual hole, max. mm2 (in.2)	32(0.05)	
Average venting area, min. %	0.1	

Reactivity Data

Stability	Stable
Conditions To Avoid	Excessive heat approaching flash point
Materials To Avoid	Oxidizing agent, strong acids
Hazardous Decomposition	CO x, SO x, NOx, sulphur compounds, smoke on combustion
Hazardous Polymerization	Not known to happen

Environmental and Disposal Information

Product as produced is in solid state. For disposal use standard approved waste disposal procedures. If product has been affected by heat or fire and asphalt in fluid state has been released from, the product then, allow to cool and solidity. Break it up and collect in appropriate containers such as drums. Dispose of it through approved waste disposal method such as landfill, etc.

Health Hazard Data

This manufactured product as protected and when used under ambient conditions poses no health hazard.

However, if the product is heated beyond 200 or if it catches fire, then, the major constituent asphalt (bitumen) will emanate slightly toxic fumes. Method asphalt (bitumen from the product could act as fuel and contribute to a fire.

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Toxicity Data	The International Agency for Research on Cancer states that there is inadequate evidence that bitumen's alone are carcinogenic to humans.
Effects of Overexposure/Inhalation	Fumes from hot asphalt cause nausea, headache, dizziness
Skin and Eyes	Hot asphalt burns skin and eyes. Prolonged or repeated skin contact may cause dermatitis.

Hazardous Ingredients

Physical Data

1. Physical State	Solid (asphalt coated, surfaced sheets).
2. Odor and Appearance	Slight petroleum order-sheet forms. Colored mineral granules/white talk or sand covered. Blackish (asphaltic) colors also.
3. Specific Gravity	1.8 to 2.5
4. Boiling Point	Not applicable
5. Vapor Pressure	Not applicable
6. Solubility in Water	Not applicable

Fire and Explosion Data

Flash Point (Method Used = COC)	Minimum 265 c (approx.)
Flammable Limits in Air (% by Volume)	Unknown
Auto-Ignition Temperature	370-480 c (approx.)
Fire and Explosion Hazards	Addition of water or foam may cause frothing. Flammable gas emitted on heating.
Extinguishing Media	Water spray, dry chemical, carbon dioxide for small fires.
Firefighting Procedures	Use water spray to cool fire-exposed containers and as a protective screen. Do not point solid water directly into burning asphalt to avoid spreading. Self-contained breathing apparatus should be worn to protect against possible release of hydrogen sulphide and sulphur dioxide if material is burning.
Ingestion	Ingestion is unlikely
Note:	Under extreme heat, product may liberate hot fluid asphalt.

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First Aid

Emergency and First Aid Procedures Information

Skin	For hot asphalt splash, cool part by water immersion or shower. Do not attempt removal of asphalt but split longitudinally if circumferential to avoid tourniquet effect. For skin soiling without underlying burn, cleanse with mineral oil followed by soap and water. Use olive oil in vicinity of eyes.
Eyes	Copious warm water flush – 15 minutes. Physician assessment if eyes are inflamed. Cleanse soiling with olive oil.
Inhalation	Evacuate to fresh air. Apply Cardio pulmonary Resuscitation if required, physician assessment mandatory.
Ingestion	Not applicable

Handling Precautions

For product as produced no special protection is essential other than wearing gloves to protect hands from physical scratches or asphaltic stains.

Additional Information

For product as produced and used, no special procedures of safety are essential. Should product catch fire through external source, remain upwind of fire. Avoid skin and eye contact, avoid inhalation of fumes.