

Hot Pour Ladles and Ladle Liner Details

Datasheet Code US: 5-14-707

SDS: 203, 211, 260, 275

Product Description

Vacuum formed products are rigid, self-supporting fiber insulation manufactured from a slurry of ceramic fibers, binders and other proprietary ingredients. Customers are provided with optimized, engineered solutions from our wide range of formulations. These include hand-pouring ladles, sampling ladles, and ladle liners.

Vacuum formed products, which are both compressed and bonded, have significantly greater density than non-bonded ceramic fiber. As a result, they are 33% more efficient than non-bonded fiber. Heat flow through vacuum formed fiber is greatly reduced leading to more consistent metal contact. When these characteristics are considered in terms of ladles and ladle liners, these products offer definite advantages over typical ladles and ladle liners on the market.

For hot pour ladles used exclusively in the aluminum market, where maximum protection against contamination of critical alloys is required, the Alfibond® formulation is strongly recommended. Alfibond is an alumiphobic material with exceptional resistance to chemical deterioration by molten aluminum. Alumiphobic describes Alfibond's lack of affinity or aversion to molten aluminum.

Features

- Lightweight - weight for capacity is negligible compared to cast iron or dense refractory ladles
- No pre-heating required - highly insulated hot pour ladles reduce heat loss while transporting
- No superheating metal - reduces energy loss and hydrogen absorption in aluminum
- No iron contamination - critical alloys remain pure, gas free, and at the correct temperature throughout the pour
- Retain structural integrity - hot pour ladles are steel reinforced for safety and durability
- Longer life - hot pour ladles withstand the deteriorating effects of molten aluminum, or most non-ferrous or ferrous metals
- Versatile - hot pour ladles can be easily substituted for iron ladles and they mount in existing handles

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Physical Properties

Reference technical datasheets: 514-701, Inorganic RCF Vacuum Formed Products and 514-704, Alfibond Products for Physical Properties, Chemical Analysis and Thermal Conductivity.

Hot Pour Hand Ladle Availability

Item Number	Ladle Number	Capacity, lb.
870-7005-062	L-85	28
870-7005-060	L-60	20
870-7005-061	L-60	20

Bottom Pour Ladle Availability

Item Number	Capacity, lb.	Dimensions
875-7005-018	2	4" OD x 3 1/2" high
875-7005-020	4	5" OD x 4 1/4" high
875-7005-022	6	6" OD x 5 1/4" high
875-7005-019	2	
875-7005-021	4	
875-7005-023	6	

Ladle Liner Availability

Item Number	Ladle Number	Top (in.)	Bottom (in.)	Height (in.)	Thickness (in.)
870-7005-043	30-S	10 1/2	2	10	1/8
870-7005-041	30-S	10 1/2	2	10	1/4
870-7005-045	50-B	7 3/4	8 3/4	9 1/8	1/8
870-7005-046	50-B	7 3/4	8 3/4	9 1/8	1/4
870-7005-047	60-B	7 3/4	7 3/4	7	1/8
870-7005-048	60-B	7 3/4	7 3/4	7	1/4
870-7005-049	60-L	8 1/4	7 1/4	8 7/8	1/8
870-7005-050	60-L	8 1/4	7 1/4	8 7/8	1/4
870-7005-053	65-L	8 5/8	7 1/8	6 1/4	1/8
870-7005-054	65-L	8 5/8	7 1/8	6 1/4	1/4
870-7005-055	80-L	9 1/4	9 1/4	13 3/8	1/8
870-7005-056	80-L	9 1/4	9 1/4	13 3/8	1/4
870-7005-057	80-L	9 1/4	8 1/8	13 3/8	1/2
870-7005-058	85-L	8 3/8	8 1/8	12 1/4	1/8
870-7005-059	85-L	8 3/8	8 1/8	12 1/4	1/4